General Specifications

Models CA100SG/SN/SC and 200SG/SN/SC Capacitance Magnetic Flowmeter



GS 01E08B01-00E

ADMAG CA magnetic flowmeter is excellent at measurement in ultra-low conductivity fluids down to 0.01μ S/cm, adhesive fluids, or slurry fluids. Since ADMAG CA employs a non-wetted electrode construction, picking up the signal voltage by electrode plates provided outside a ceramic pipe through the capacitance of the pipe.

FEATURES

■ Non-wetted electrodes

- Immune to adhesive or slurry fluids
- Wide measurable range, minimum 0.01µS/cm of conductivity. (for size 15 to 100mm (0.5 to 4in.))
 Leak Proof Electrode
- Excellent on corrosive fluid and abrasive fluid
 Alumina ceramics (99.9%)
- Dual compartment housing separates the wiring section from the electronics and protects the electronics from corrosibe environments.
- High visibility backlight LCD for easy operation
 High accuracy, ±0.5% of flow rate (size 25 to
- 100mm (1 to 4 in))

STANDARD SPECIFICATIONS

Degrees of Protection :

IP67, NEMA4X

Grounding: 100Ω or less

- * In case of TIIS(JIS) Flameproof type, JIS Class C (10 Ω or less) or JIS Class A (10 Ω or less)
- * In case of explosion proof type except TIIS, follow the domestic electrical requirements as regulated in each country.

Magnetic Flow Converter

- * Note: For models with no indicator, a hand-held terminal is necessary to set parameters.
- **Note:Pulse output and alarm output use commom terminals, therefore these functions are not available at the same time.

Output Signal:

Current Output: 4 to 20 mA DC Load resistance 750 ohm maximum (250 to 600 ohm when communication) Transistor Contact Output: Pulse or alarm output selected by parameter setting (Contact rating: 30 V DC(OFF), 200mA(ON)) Communication (Optional) :

Conditions of Communication (Optional) : BRAIN (Superimposed on the 4 to 20 mA DC signal) Conditions of Communication Line: Load Resistance: (including cable resistance) 250 to 600 ohm Load Capacitance: 0.22 μF maximum Load Inductance: 3.3 mH maximum Distance from Power Line: 15 cm(0.6 ft) or more (Parallel wiring should be avoided.) Input Impedance of Receiver Connected to the

Receiving Resistance: 10 k Ω or larger (at 2.4 kHz)



Maximum Cable Length: 2 km(6500 ft) (when polyethylene - insulated PVC sheathed control cables (CEV cables) are used)

Instantaneous Flow Rate Display Function:

Flow rate can be displayed either in engineering units or in percent of span. (for models with indicator)

Totalizer Display Function: Totalized volume in engineering units can be displayed by setting a totalizing factor. (for models with indicator) Span Setting Function:

Volumetric flow setting is available by setting volume unit, time unit, flow rate value and flow tube size.

Volume Unit: gallon(US), m³, L, cm³, barrel (=158.987L)

Velocity Unit: ft, m

Time Unit: s (sec), min, h (hour), d (day) Flow Tube Size: inch, mm

Data Security During Power Failure: Data storage in EEPROM - no back-up

battery required. Damping Time Constant: Settable from 1 second to 200 seconds.

(63% response time)

Pulse Output Function: Scaled pulse can be output by

setting a pulse factor. Pulse Width: Duty 50% or fixed pulse width (0.5, 1, 20, 33, 50, or 100 ms) - user

selectable. Output Rate: 0.0001 to 1000pps (when pulse

output function is selected.) Alarm Output Function:

Indicates that an alarm occurs (Normal Close Fixed).



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Self Diagnostics Function:

Converter failure, flow tube failure, erroneous setting, etc. can be diagnosed and displayed (for models with indicator).

Electrical Connection:

ANSI 1/2NPT female, DIN Pg13.5 female, ISO M20 x 1.5 female, JIS G1/2 female.

Terminal Connection: M4 size screw terminal.

Case Material: Aluminum alloy.

Polyurethane corrosion-resistant coating. Coating: Cover; Deep sea moss green (Munsell 0.6GY3.1/2.0). Case; Frosty white (Munsell 2.5Y8.4/ 1.2).

Magnetic Flow Tube

Size in mm (inch):

15 (0.5"), 25 (1"), 40 (1.5"), 50 (2"), 80 (3"), 100 (4"), 150 (6"), 200 (8")

Coating:

Size 15 to 100mm (0.5 to 4 in) : No coating (Stainless steel surface)

Size 150, 200mm (6, 8 in) :

Polyurethane corrosion-resistant coating Frosty white (Munsell 2.5Y8.4/1.2)

Flow Tube Material:

Housing: Stainless steel (15 mm: SCS11, 25 to 200 mm: SUS304)

Wetted Part Material:

Alumina ceramics (99.9%) Pipe: Earth Ring:Stainless steel (SUS316), Hastelloy C276 equivalent, Titanium

Note: • Hastelloy is a registered trademark of Haynes International Inc.

Gasket:

- VALQUA#7020 : Fluoro resin PTFE with filler (between flow tube body and earth ring)
- VALQUA#4010 : Fluoro rubber, viton (between flow tube body and earth ring; for optional code / FRG)
- Non-asbestos joint sheet sheathed with fluoro resin PTFE (between earth ring and process flange; for optional code /BCF or /BSF)

 Chloroprene rubber (between earth ring and process flange; for optional code /BCC or /BSC)

- Note: Other gaskets between flow tube body and earth ring:
 - VALQUA#7026 : corrosion resistance gasket (Fluoro resin PTFE with carbon)
 - VALQUA#4010 (Mixing#RCD970) : Alkali resistance gasket for PVC piping (Fluoro rubber)
 - VALQUA#4010 (Mixing#RCD470) : Acid resistance gasket for PVC piping (Fluoro rubber)

Contact Yokogawa office.

Electrode Construction: Non-wetted type.

HAZARDOUS AREA CLASSIFICA-TION

- FM: (Only for sizes 15 to 100mm)
- **Applicable Standard:**

FM 3600, FM 3615, FM 3810, ANSI/NEMA 250 Explosion proof for Class I, Division 1, Groups A, B. C and D. Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G. Temp. Code: T6 Ambient Temp.: -20°C to +50°C (-4 to 122°F) Maximum power supply voltage : 240 Vac/ 120 Vdc Enclosure: Type 4X Note: Installation shall be in accordance with the manufacturer's instructions and the National Electric Code, ANSI/NFPA-70 CSA: (Only for sizes 15 to 100mm)

Applicable Standard: CSA Standard C22.2 No.0, No.0.4, No.0.5, No.25, No.30, No.94, No.61010-1

Certificate: 1500865

Explosion proof for Class I, Groups B, C and D; Class II, Groups E, F and G; Class III Temp. Code: T6 T5 T4 Process Temp.: 70 85 120°C Ambient Temp.: -20°C to +50°C (-4 to 122°F) Maximum power supply voltage: 240 Vac/ 120 Vdc Enclosure: Type 4X

Note: Installation shall be in accordance with the manufacturer's instructions. All wiring shall comply with Canadian Electrical Code Part I and Local Electrical Codes.

■ TIIS: (former JIS; For sizes 15 to 100mm)

Certificate:

Size (mm)	Certificate	Size (mm)	Certificate
15	TC13644	50	TC13647
25	TC13645	80	TC13648
40	TC13646	100	TC13649

T07.eps

Construction: Exde IIC T4

- : Converter; Flameproof Flow Tube; Increased Safety
- : Ignition and Explosion Class of gas or
- vapour; II CT4
- Ambient Temperature : -20 to 50°C
- Fluid Temperature : 120°C or less
- Maximum power supply voltage: 250V AC/ 130V DC
- Grounding: JIS Class C(10Ω or less) or JIS Class A(10 Ω or less)

STANDARD PERFORMANCE

Accuracy :

Size 15 to 100mm (0.5 to 4in): (fluid conductivity of 0.1µ S/cm or more)

Size in mm (inch)	Span in m/s (ft/s)	Accuracy
	0.5 to 1 (1 to 3)	±1.0% of span
15 (0.5)	1 to 10 (3 to 33)	±0.5% of span (at indications below 50% of span)
		\pm 1.0% of rate (at indications 50% of span or more)
	0.5 to 1 (1 to 3)	±0.5% of span
25 to 100 (1 to 4)	1 to 10 (3 to 33)	±0.25% of span (at indications below 50% of span)
		$\pm 0.5\%$ of rate (at indications 50% of span or more)

Size 150, 200mm (6, 8in):

(fluid conductivity of 1µ S/cm or more)

	,	2
Size in mm (inch)	Span in m/s (ft/s)	Accuracy
	0.5 to 1 (1 to 3)	±1.0% of span
150, 200 (6, 8)	1 to 10	±0.5% of span (at indications below 50% of span)
		±1.0% of rate (at indications 50% of span or more)

Repeatability:

 $\pm 0.1\%$ of rate (Minimum ± 1 mm/s) Maximum Power Consumption:

- 14W
- Insulation Resistance:
 - 100M ohm between power terminals
 - and ground terminal at 500 V DC.
 - 100M ohm between power terminals
 - and each output terminal at 500 V DC.
 - 20M ohm between each output terminal and ground terminal at 100 V DC.

Withstanding Voltage:

• 1500 V AC for 1 minute between power terminals and ground terminal.

When performing the Voltage Breakdown Test, Insulation Resistance Test or any unpowered electrical test, wait 10 seconds after the power supply is turned off before removing the housing cover. Be sure to remove the Short Bar at terminal "G". After testing, return the Short Bar to its correct position. Screw tightening torque should be 1.18N-m (0.88ft-lb) or more, because the G-terminal is thought as a protective grounding and should conform to the Safety Requirements.

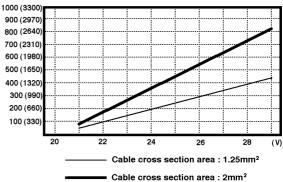
EMC Conformity Standard: AS/NZS CISPR 11

NORMAL OPERATING CONDITIONS

Ambient Temperature: -20 to 50°C (-4 to 122°F) Ambient Humidity: 5 to 80%RH (no condensation) Power Supply : -A1;Range 80 to 264 V AC, 47 to 63 Hz/ 100 to 130 V DC, -D1;Range 20.4 to 28.8 V DC

Supplied Power and Max. Cable Length for 24V DC version:

Allowed cable length m (ft)



Grounding: 100 Ω or less **Measurable Fluid Conductivity:**

• Size 15 to 100mm (0.5 to 4 in): 0.01µS/cm or more

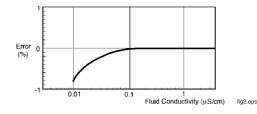
Size 150, 200mm (6,8 in): 1µS/cm or more
 * In case of size 15 to 100mm (0.5 to 4 in) for fluid
 of which conductivity is from 0.01µS/cm to 0.1µS/
 cm, refer to accuracy in the figure below.

Measured Data for Reference:

Measured Condition

Fig1.eps

Size	: 25mm(1 in.)
Fluid name	: Glycerin + Ethylene glycol
Viscosity	: 30cSt
Flow velocity	: 1m/s
Damping	: 3 seconds
Measured Time	: 20 seconds

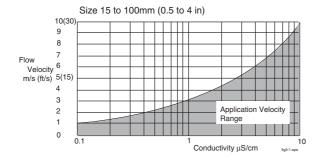


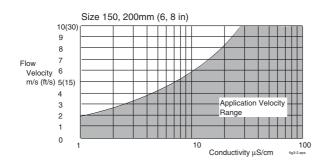
Piping Conditions:

- Piping should be designed to ensure a full pipe. ADMAG CA does not employ an empty detection circuit, and an empty pipe condition can result in an erratic output.
- For fluids which have large flow noise(pure water, pure alcohol or others), low conductivity or low viscosity, design the upper stream straight length which is over 20D(If impossible, contact Yokogawa office).

Be careful not to protrude the gasket into the piping.

Flow velocity in the range below is available.





Measurable Flow Range:

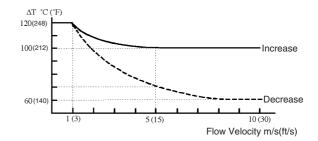


Size	Min. Range @0.5m/s	Max. Range @10m/s
15	0 to 0.3181	0 to 6.361
25	0 to 0.8836	0 to 17.671
40	0 to 2.2620	0 to 45.23
50	0 to 3.535	0 to 70.68
80	0 to 9.048	0 to 180.95
100	0 to 14.138	0 to 282.74
150	0 to 31.81	0 to 636.1
200	0 to 56.55	0 to 1,130.9

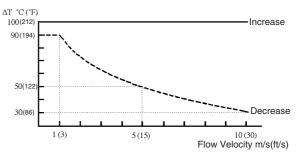
Size	Min. Range @1.6ft/s	Max. Range @33ft/s
0.5	0 to 1.0040	0 to 20.078
1	0 to 4.016	0 to 80.31
1.5	0 to 9.036	0 to 180.70
2	0 to 16.063	0 to 321.2
3	0 to 36.15	0 to 722.8
4	0 to 64.26	0 to 1,285.0
6	0 to 144.57	0 to 2,891.3
8	0 to 257.01	0 to 5,140
		T01.EPS

Reasonable Figures for Thermal Shock of Ceramic Pipe:

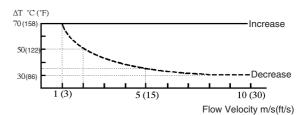
Size 15, 25mm (0.5, 1in)



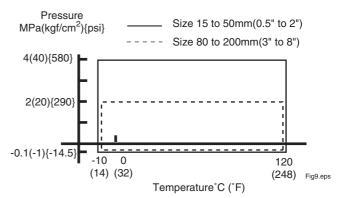




Size 80 to 200mm (3 to 8 in)



Fluid Temperature and Pressure:



NOTE: This limits show maximum allowable fluid pressure for Flow Tube it self. Further fluid pressure should also be limited according to flange rating.

MODEL AND SUFFIX CODES

Model		Suffix Code Description
CA115S CA202S CA204S CA205S CA208S CA210S CA215S CA220S Use	0	Size 15mm(0.5") Size 25mm (1") Size 40mm (1.5") Size 50mm (2") Size 80mm (3") Size 100mm (4") Size 200mm (6") Size 200mm (8")
Use	G N C	General purpose type FM/CSA Explosion proof type (Only for sizes 15 to 100mm)(*3) TIIS(JIS) Flameproof type (Only for sizes 15 to 100mm)(*2)
Pipe (*4)		-C · · · · · · · · Ceramics
Process Connection (*5)	n	K1 JIS 10K wafer K2 JIS 20K wafer B1 ANSI 150 wafer B2 ANSI 300 wafer E2 DIN PN10/16 wafer H1 JIS F12(75M) wafer(*1)
Electrode material -N		rial -N······ Always N
(*4) H		rial S SUS316 H Hastelloy C276 equivalent V Titanium
Electrical connection (*2) J · · · · A · · · · D · · · · · M · · · ·		A · · · · · · · ANSI 1/2NPT female(*3)
		-A1 80 to 264V AC / 100 to 130V DC -D1 20.4 to 28.8V DC
		DH···· Horizontal (7 Segment LCD) DV··· Vertical (7 Segment LCD) N···· None
Optional specification /		
۰ ×۱	LI1 io	only for size 80 to 200mm

*1 : H1 is only for size 80 to 200mm.

2	: Select JIS G1/2 female electrical connection
	(code J) and optional code /JF3 with /G11 or /G12
	in case of requirement of TIIS(JIS) Flameproof type.
3	: Select ANSI 1/2 NPT female electrical connection (code A) in case

*3 : Select ANSI 1/2 NPT female electrical connection (code A) in case of requirement of FM/CSA explosion proof type.

*4 : A Users must consider the characteristics of selected wetted parts material and the influence of process fluids. The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids. Be very careful with highly corrosive process fluids such as

hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above).

Contact Yokogawa for detailed information of the wetted parts material.

*5 : Allowable fluid pressure should also be limited according to fluid temperature and pressure.



*6

OPTIONAL SPECIFICATIONS

		Use			1
ITEM	Specification	General Purpose	Ex.F	Proof	Code
		CA***SG	CA***SC	CA***SN	1
Waterproof Gland	Waterproof Glands are attached to Power and	А	N	N	/ECG
	signal wiring ports. For JIS G1/2 only.				
Waterproof Gland with	Waterproof Glands(union joint) are attached to	A	Ν	N	/ECU
Union Joint	Power and signal wiring ports. For JIS G1/2 only.				
Gasket for PVC pipe (Note 4)	Gaskets are attached between earth ring and flow tube.	А	А	А	/FRG
Lightning Protector	Built-in Lightning Protector(Only for 24VDC version)	A	А	А	/A
BRAIN Communication	Digital communication with BRAIN protocol	A	A	A	/BR
Epoxy Coating	Coating is changed to Epoxy coating.	A	A	A	/EPF
High Anti-corrosion Coating	Coating is changed to three-layer coating		A		/
High Anti-corrosion Coaling	(Urethane coating on two-layer epoxy coating)	A	A	A	/X2
Material Certificate	Reproduced material certificate for earth ring.	A	A	А	/M01
Bolt & Nut Assembly (Note 1)	Carbon steel bolts/nuts and chloroprene gaskets assembly.	A	А	А	/BCC
	Carbon steel bolts/nuts and non-asbestos PTFE- wrapped gaskets assembly.	А	А	А	/BCF
	Stainless steel bolts(SUS304)/nuts(SUS403) and chloroprene gaskets assembly.	А	А	А	/BSC
	Stainless steel bolts(SUS304)/nuts(SUS403)	А	А	Α	/BSF
	and non-asbestos PTFE-wrapped gaskets assembly.				
TIIS(JIS) Flameproof (Note 2) (Note 3)	TIIS(JIS) Flameproof type	N	Note3	N	/JF3
Flameproof Packing Adapter for JIS Flameproof(Note 3)	One Flameproof Packing Adapter and a blind plug are attached.	N	Note3	N	/G11
	Two Flameproof Packing Adapters are attached.	N	Note3	N	/G12
FM Approval (Note 2)	FM Explosion proof type	N	N	A	/FF1
CSA Certification (Note 2)	CSA Explosion proof type	N	N	A	/CF1
Mirror Finished Ceramics	Mirror Finishing on the inside of ceramic tube (Rmax. <= 1micro-meter)	A	A	A	/MRF
180deg. Rotate Converter	180deg. rotate converter for reversed flow direction	A	A	A	/CRC
Oil-prohibited Use	Degreased cleansing treatment	A	A	A	/K1
Oil-prohibited Use with	Degreased cleansing treatment; Packing with desiccant				
Dehydrating Treatment		A	A	A	/K5
Hydrostatics Test Certificate	Test pressure depends on process connection (Test duration 10minutes) Test result is full in NOTE of QIC.	A	А	A	/T01
Calibration Certificate	Level2: Declaration and Calibration Equipment List	A	А	A	/L2
	Level3: Declaration and Primary Standard List	A	A	A	/L3
	Level4: Declaration and YOKOGAWA Measuring Instruments Control System	A	A	A	/L4

 It is available only for size 15 to 100mm (0.5 to 4 in).
 It is available only for size 15 to 100mm (0.5 to 4 in).
 Select optional code /JF3 with /G11 or /G12 in case of requirement of TIIS (JIS) Flameproof type. /G11 is selectable only for DC power supply and 4-conductor cable use.
 ▲ Users must consider the characteristics of selected wetted parts material and the influence of process fluids. The use of /// a dense inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids.

Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.

TERMINAL CONNECTION

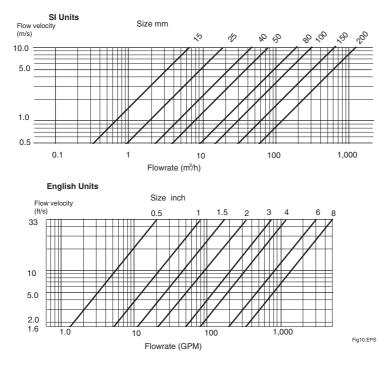
Terminal Symbols	Description
P+ P-	Pulse or Alarm output
+ -	Current output 4 to 20mA DC
L/+ N/-	Power and protective grounding
	T04.EPS

ACCESSORIES

Data sheet 1 Unit labels 1 Centering device 1set Hexagonal Wrench(in case of ex-proof) 1

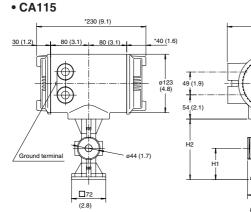
A · Available N · Not available

SIZING DATA



Note; Measurable flow velocity is from 0m/s.

EXTERNAL DIMENSIONS



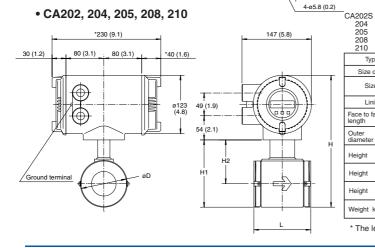
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147 (5.8)

CA115S

Тур	e	General (G)	Ex-proof (N/C)		
Size c	ode	115			
Siz	e	15 (0.5)			
Lini	ng	Ceramics			
Height	н	267.5 (10.5)	265 (10.4)		
Height	H1	66 (2.6)	66 (2.6)		
Height	H2	127.5 (5.0)	125 (4.9)		
Weight k	g (lb)	4.7 (10.4)	4.7 (10.4)		
			Fig. 12		

* The length marked as * is shorter by approx. 10 mm (0.4") for non indicator type.



208 210											
Туре	Gemeral (G)					Ex-proof (N/C)					
Size code		202	204	205	208	210	202	204	205	208	210
Size		25 (1.0)	40 (1.5)	50 (2.0)	80 (3.0)	100 (4.0)	25 (1.0)	40 (1.5)	50 (2.0)	80 (3.0)	100 (4.0)
Lining		Ceramics									
Face to face length	L	93 (3.7)	106 (4.2)	120 (4.7)	160 (6.3)	180 (7.1)	93 (3.7)	106 (4.2)	120 (4.7)	160 (6.3)	180 (7.1)
Outer diameter	øD	67.5 (2.7)	86 (3.4)	99 (3.9)	129 (5.1)	155 (6.1)	67.5 (2.7)	86 (3.4)	99 (3.9)	129 (5.1)	155 (6.1)
Height	н	250.6 (9.9)	271 (10.7)	283.5 (11.2)	313.5 (12.3)	349.5 (13.8)	248.6 (9.8)	269 (10.6)	281.5 (11.1)	311.5 (12.3)	347.5 (13.7)
Height	H1	110.6 (4.4)	131 (5.2)	143.5 (5.6)	173.5 (6.8)	209.5 (8.2)	108.6 (4.3)	129 (5.1)	141.5 (5.6)	171.5 (6.8)	207.5 (8.2)
Height	H2	76.8 (3.0)	87.5 (3.4)	94 (3.7)	109 (4.3)	132 (5.2)	74.8 (2.9)	85.5 (3.4)	92 (3.6)	107 (4.2)	130 (5.1)
Weight kg (lb)		4.6 (10.1)	5.5 (12.1)	6.5 (14.3)	9.2 (20.3)	12.3 (27.1)	4.6 (10.1)	5.5 (12.1)	6.5 (14.3)	9.2 (20.3)	12.3 (27.1)
* The length marked as * is shorter by approx. 10 mm (0.4") for non indicator type.											

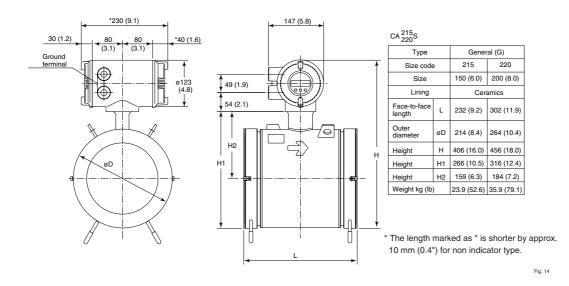
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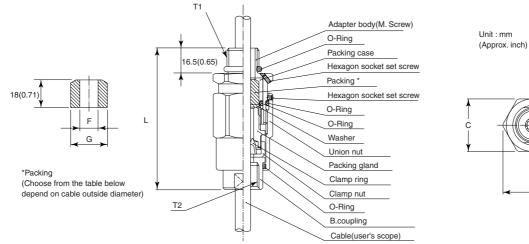
Unit : mm (Approx. inch)

7

• CA215, 220



TIIS (JIS) Flameproof Packing Adapter /G11, /G12



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,	1 C	
	<u>ا</u>))

Dimension						Packing diameter		Identification	Weight
T1	T2	С	D	L	Cable outer diameter	F	G	mark	kg (lb)
0.1/2	G 1/2	35	39	94.5	ø8.0 to ø10.0 (0.31 to 0.39)	ø10.0(0.39)	ø20.0	16 8-10	0.26
G 1/2	G 1/2	(1.38)	(1.54)	(3.72)	ø10.0 to ø12.0 (0.39 to 0.47)	ø12.0(0.47)	(0.79)	16 10-12	(0.57)

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

	Unit : mm (approx.inch)							
Category of ba	asic dimension	Tolerance	Category of ba	Tolerance				
Above	Above Equal or below		Above	Equal or below	TOIETATICE			
	3 (0.12)	±0.7 (±0.03)	500 (19.69)	630 (24.80)	±5.5 (±2.17)			
3 (0.12)	6 (0.24)	±0.9 (±0.04)	630 (24.80)	800 (31.50)	±6.25 (±0.25)			
6 (0.24)	10 (0.39)	±1.1 (±0.04)	800 (31.50)	1000 (39.37)	±7.0 (±0.28)			
10 (0.39)	18 (0.71)	±1.35 (±0.05)	1000 (39.37)	1250 (49.21)	±8.25 (±0.32)			
18 (0.71)	30 (1.18)	±1.65 (±0.06)	1250 (49.21)	1600 (62.99)	±9.75 (±0.38)			
30 (1.18)	50 (1.97)	±1.95 (±0.08)	1600 (62.99)	2000 (78.74)	±11.5 (±0.45)			
50 (1.97)	80 (3.15)	±2.3 (±0.09)	2000 (78.74)	2500 (98.43)	±14.0 (±0.55)			
80 (3.15)	120 (4.72)	±2.7 (±0.11)	2500 (98.43)	3150 (124.02)	±16.5 (±0.65)			
120 (4.72)	180 (7.09)	±3.15 (±0.12)						
180 (7.09)	250 (9.84)	±3.6 (±0.14)						
250 (9.84)	315 (12.40)	±4.05 (±0.16)						
315 (12.40)	400 (15.75)	±4.45 (±0.18)						
400 (15.75)	500 (19.69)	±4.85 (±0.19)						
Descendes The summarie is been does with the effective science (T40 in UO D 0404								

General tolerance in the dimensional outline drawing.

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

■ EARTH RING INSIDE DIAMETER

)		
Size	EARTH R		
	INSIDE D		
15 (0.5)	ø15	(0.6)	* Plea
25 (1)	ø27	(1.1)	doe
40 (1.5)	ø40	(1.6)	
50 (2)	ø52	(2.1)	
80 (3)	ø81	(3.2)	
100 (4)	ø98	(3.9)	
150 (6)	ø144	(5.7)	
200 (8)	ø192	(7.6)	T05.EPS

* Please be sure the inner diameter of a gasket does not protrude to the earth ring inside diameter.

■ GASKET

Please use compressed non-asbestos fiber gasket, PTFE gasket or the gasket which has equal elasticity. In case of optional code/FRG, please use rubber gasket or others which has equal elasticity.

=== ORDERING INFORMATION ===

- 1. Model, specification and optional codes.
- 2. Fluid name.
- 3. Parameter setting.
 - (1) Flow rate span (at 100% of the flow rate) Example: Volume/Time unit
 - (2) Totalizing pulse units
 Example: Volume/Pulse, Pulse/Time unit
 - (3) Transmission pulse units (Only with pulse output)

Example: Volume/Pulse, Pulse/Time unit

=== RELATED INSTRUMENTS ===

Related Product Calibrator for magnetic flowmeter (AM012)GS 01E06K02-00E BT200 Brain TerminalGS 1C0A11-E

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