



ECO OVAL (OVERSEAS EDITION)

GENERAL SPECIFICATION
GS.No.GBB351-2-E

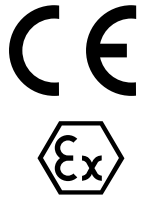
■ GENERAL

This flowmeter is unique in selecting measuring chamber material and in design. The state-of-the-art electronic expertise is used throughout with multiple-function, all-electronic register.

A magnetic sensor detects magnetic fields created by magnets embedded in the oval rotor in the wetted parts to obtain unfactored and factored pulses of extremely high sensitivity and reliability.

■ FEATURES

1. Precise flowmetering is attributable to the inherent accuracy of Oval flowmeter.
2. The register contains an LCD counter with multiple functions. View angle is freely adjustable. [Grand total flow, instantaneous flowrate (per-hour or per-minute), and resettable total flow selectable]
3. The LCD changes display modes with MODE switch at left of the register.
4. Small wetted parts count contributes to long life.
5. Flow output signal is compatible with a wide choice of remote receiving instruments for control, adjust, record, and more applications.



■ ELECTRONIC REGISTER SPECIFICATIONS

Item	Description		
Functions	1 Accumulated total (8-digit)		
	2 Instantaneous flowrate (Mode b1:Hourly/Mode b2:Per-minute, selectable)		
	3 Resettable total (Zerostart /zeroresettable, Mode C)7-digit		
	4 Low battery alarm (a low battery indicator comes on below battery voltage 3.0V.) "▣"		
	5 Factored pulse and unfactored pulse output (in externally powered model)		
Display	LCD7-segment 8-digit. Characters 10mm high. LCD reads in L (standard), kL, m ³ , g, kg, or none (normal).		
Reading accuracy	Total: ±1 count or better Instantaneous: ±1% of full scale or better		
Display orientation	Rotatable in 90° steps.		
Output signal	Type	Open collector pulse	
	Capacity	Allowable current:20mADC Max, voltage impression: 30VDC	
	Kind	Factored	Unfactored
	Pulse width	1ms (std.), 50ms, 100ms, 250ms	2ms (fixed)
Transmission length	1km max. (model operating on external power source) Vinyl insulated, vinyl sheathed control cable (CVV-S):1.25mm ² Finished cable O.D.:Applicable up to 11.0mm		
Power source	Battery powered	Externally powered	
	Power sources 3.6VDC dedicated battery pack built in Life:8 years (Low battery alarm comes on below 3V approx.)	12~50VDC ±10% Current capacity: 10mA Min. backup battery built in	
Operating temp. range	-20~+60°C (explosionproof model:-20~+50°C) ※ Display temp. range:-10~+60°C		
Material	Housing:AC2A-T6		
Finish	Body:7.5G7/2.5 Body cover:10G5/5.5 (baked melamine)		
Explosionproof construction	Ex. Specs	Battery powered:Intrinsically safe explosionproof I1G EExialIBT4 External power: Flameproof and intrinsically safe ex. I2G EExdIIBT4 Conduit connection:NPT1/2 (Battery powered type is provided with a blind plug.)	
Housing Protection Grade	IP66		

This product is not accompanied by approval drawing and test data sheet.

■ APPLICABLE EN DIRECTIVES

Applicable EU Directive	Electro-Magnetic Compatibility Directive : 89/336/EEC,92/31/EEC,93/68/EEC ATEX Directive : 94/9/EC
Applicable EN standards, etc.	For Electro-Magnetic Compatibility Directive EN55011 : 1998/A1 : 1999,Group1,ClassB EN61000-6-2 : 2001 ATEX Directive : EN 50014:1997 EN 50018:2000 EN 50020:2000

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FACTORED PULSE WIDTH SELECTOR TABLES

Meter ID code:L

: Option

Meter Size	Capacity	Factored pulse		Factored pulse selectable range				Unfactored pulse	
		Unit pulse	Output freq.,Hz	1ms	50ms	100ms	250ms	Nom.meter factor	Output freq.
49	999999.99×L	10mL/P	22.2Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.928mL/P	37.5Hz
	999999.9×L	100mL/P	2.22Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>		
	99999999×L	1L/P	0.22Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
50	999999.99×L	10mL/P	55.6Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.912mL/P	56.0Hz
	999999.9×L	100mL/P	5.56Hz	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	99999999×L	1L/P	0.56Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
52	999999.99×L	10mL/P	106Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.639mL/P	109.5Hz
	999999.9×L	100mL/P	10.6Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	99999999×L	1L/P	1.06Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
53	999999.99×L	100mL/P	17.7Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.470mL/P	101.8Hz
	99999999×L	1L/P	1.77Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	999999.99×m ³	10L/P	0.17Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
55	999999.99×L	100mL/P	38.9Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	34.526mL/P	112.6Hz
	99999999×L	1L/P	3.89Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>		
	999999.99×m ³	10L/P	0.39Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
56	999999.9×L	100mL/P	66.7Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	74.483mL/P	89.5Hz
	99999999×L	1L/P	6.67Hz	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	999999.99×m ³	10L/P	0.67Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

Meter ID code:W

: Option

Meter Size	Capacity	Factored pulse		Factored pulse selectable range				Unfactored pulse	
		Unit pulse	Output freq.,Hz	1ms	50ms	100ms	250ms	Nom.meter factor	Output freq.
52	999999.99×L	10mL/P	33.3Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.918mL/P	33.6Hz
	999999.9×L	100mL/P	3.33Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>		
	99999999×L	1L/P	0.33Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
53	999999.9×L	100mL/P	10.0Hz	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.955mL/P	55.7Hz
	99999999×L	1L/P	1.0Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	999999.99×m ³	10L/P	0.1Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
55	999999.9×L	100mL/P	20.0Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	35.496mL/P	56.3Hz
	99999999×L	1L/P	2.0Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	999999.99×m ³	10L/P	0.2Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
56	999999.9×L	100mL/P	33.3Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	76.455mL/P	43.6Hz
	99999999×L	1L/P	3.33Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>		
	999999.99×m ³	10L/P	0.33Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

Meter ID code:S

: Option

Meter Size	Capacity	Factored pulse		Factored pulse selectable range				Unfactored pulse	
		Unit pulse	Output freq.,Hz	1ms	50ms	100ms	250ms	Nom.meter factor	Output freq.
39	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.09838mL/P	33.9Hz
	99999.999×L	1mL/P	3.33Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	999999.99×L	10mL/P	0.33Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
41	99999.999×L	1mL/P	16.67Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.4896mL/P	34.0Hz
	999999.99×L	10mL/P	1.67Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>		
	9999999.9×L	100mL/P	0.17Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
45	999999.99×L	10mL/P	13.89Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.2339mL/P	94.6Hz
	999999.9×L	100mL/P	1.39Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	99999999×L	1L/P	0.14Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
50	999999.99×L	10mL/P	55.56Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.968mL/P	111.8Hz
	999999.9×L	100mL/P	5.56Hz	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	99999999×L	1L/P	0.56Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
52	999999.99×L	10mL/P	105.5Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.664mL/P	109.2Hz
	999999.9×L	100mL/P	10.56Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	99999999×L	1L/P	1.06Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
53	999999.99×L	10mL/P	177.78Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.513mL/P	101.5Hz
	999999.9×L	100mL/P	17.78Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	99999999×L	1L/P	1.78Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
55	999999.9×L	100mL/P	38.89Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23.07mL/P	168.6Hz
	99999999×L	1L/P	3.89Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>		
	999999.9×m ³	10L/P	0.39Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
56	999999.9×L	100mL/P	66.67Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37.33mL/P	178.6Hz
	99999999×L	1L/P	6.67Hz	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	999999.99×m ³	10L/P	0.67Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
57	999999.99×L	100mL/P	122.22Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	98.04mL/P	124.7Hz
	99999999×L	1L/P	12.22Hz	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	999999.99×m ³	10L/P	1.22Hz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

■ METER BODY SPECIFICATIONS

Item		Description									
Meter size		39	41	45	49	50	52	53	55	56	57
Flange rating		JIS 10k RF, ANSI 150 RF									
Flow range		See flow range tables (page 3).									
Pressure range		JIS 10k RF, ANSI 150RF:1.18MPa (L, W) JIS 10k RF, ANSI 150RF:1.50MPa (S)									
Operating temp. range		-10~+120°C									
Linearity		±0.35% RD(L,S), ±1% RD(W)									
Material	Body	Cast Iron (FC250)(L), Bronze (BC2)(W), Stainless steel (about SUS316)(S)									
	Rotors	39:Special carbon only, 41~57: SUS316(S), Special resin(L,W)									
Flow directions		Right to left (standard), left to right, bottom to top, top to bottom									

■ METER SIZES, PROCESS CONNECTIONS, AND MATERIALS

Meter size	Nominal size	Flange rating	Meter body: L Material : FC250/resin	Meter body: W Material : BC2/resin	Meter body: S Material : SCS14/SUS316
39	10mm (3/8") ※1	JIS 10k RF, ANSI 150 RF	—	—	○
41	10mm (3/8") ※1	JIS 10k RF, ANSI 150 RF	—	—	○
45	10mm (3/8") ※1	JIS 10k RF, ANSI 150 RF	—	—	○
49	20mm (3/4")	JIS 10k RF, ANSI 150 RF	○	—	—
50	20mm (3/4")	JIS 10k RF, ANSI 150 RF	○	—	○
52	20mm (3/4")	JIS 10k RF, ANSI 150 RF	—	○ ※2	—
	25mm (1")	JIS 10k RF, ANSI 150 RF	○	—	○
53	25mm (1")	JIS 10k RF, ANSI 150 RF	—	○ ※2	○
	40mm (1 1/2")	JIS 10k RF, ANSI 150 RF	○	—	—
55	40mm (1 1/2")	JIS 10k RF, ANSI 150 RF	○	○ ※2	○
56	50mm (2")	JIS 10k RF, ANSI 150 RF	○	○ ※2	○
57	50mm (2")	JIS 10k RF, ANSI 150 RF	—	—	○

※1 : 1/2" for ANSI flanged sensors.

※2 : Meter body : W — ANSI 150 flange is not available.

■ FLOW RANGES

● for Oil Service Only (Kerosene, Gas Oil, Heavyoil) (L) Material : Body:FC250/Rotors:Special resin Unit:L/h

Meter size	Nom. size	Viscosity	Kerosene	Gas Oil (heavy oil A)	Heavy oil
			(Above 0.8mPa·s to 2mPa·s)	(Above 2mPa·s to 5mPa·s)	(Above 5mPa·s to 200mPa·s)
49	20mm (3/4")		10~ 800	7~ 800	5~ 800
50	20mm (3/4")		150~ 1600	80~ 2000	50~ 2000
52	25mm (1")		300~ 3000	150~ 3800	80~ 3800
53	40mm (1 1/2")		600~ 5000	300~ 6400	150~ 6400
55	40mm (1 1/2")		1200~11000	600~14000	400~14000
56	50mm (2")		2000~20000	1400~24000	900~24000

● for Water Service Only (W) Material : Body:BC2/Rotors:Special resin

Meter size	Nom.size	Water
52	20mm (3/4")	200~1200 L/h
53	25mm (1")	600~3600 L/h
55	40mm (1 1/2")	1200~7200 L/h
56	50mm (2")	2000~12000 L/h

● General chemical liquids service, Oil & Water (S)

Material : Body:SCS14/Rotors:SUS316 Sintered metal

※Body & Rotor :39;Special carbon only

Unit in L/h

Viscosity	Less than 0.3mPa·s	0.3mPa·s ~ 0.8mPa·s	0.8mPa·s ~ 2mPa·s	2mPa·s ~ 5mPa·s	5mPa·s ~ *200mPa·s
※39	2~ 12	1.4~ 12	0.7~ 12	0.35~12	0.2~ 12
41	18~ 60	12~ 60	4~ 60	2.5 ~60	1 ~ 60
45	50~420	35 ~420	15~420	10 ~420	5 ~420

* Only model 45 can handle up to 1000mPa·s

Unit in m³/h

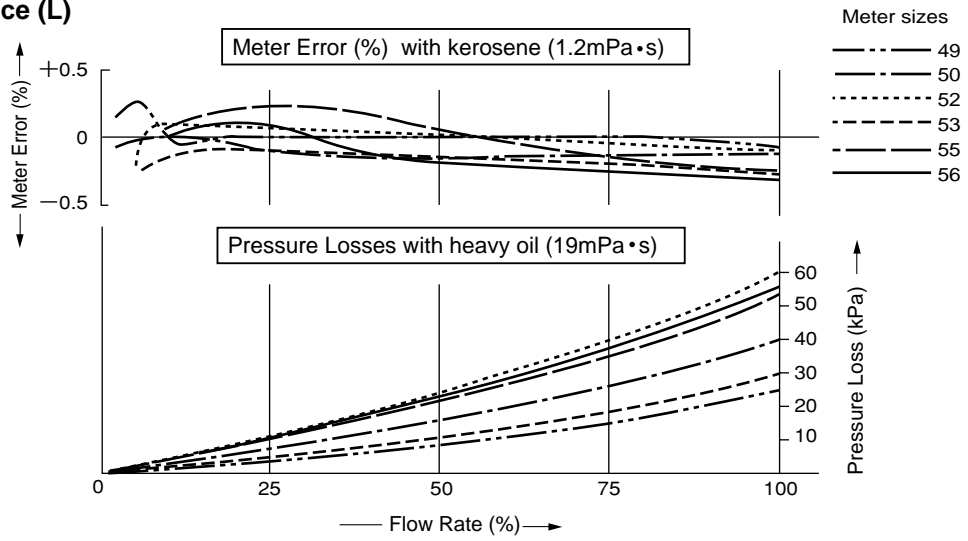
Viscosity	Less than 0.3mPa·s	0.3mPa·s ~ 0.8mPa·s	0.8mPa·s ~ 2mPa·s	2mPa·s ~ 5mPa·s	5mPa·s ~ 1000mPa·s
50	0.3~1.6	0.15~1.6	0.1 ~1.6	0.05~ 2	0.03 ~ 2
52	0.7~3	0.4 ~3	0.3 ~3	0.15~ 3.8	0.08 ~ 3.8
53	1.1~5	0.7 ~5	0.55~5	0.28~ 6.4	0.15 ~ 6.4
55	1.8~11	1.2 ~11	1 ~ 11	0.4 ~14	0.26~14
56	3.5~20	2.5 ~20	2 ~ 20	0.9 ~24	0.6 ~ 24
57	8 ~ 37	5 ~ 37	4 ~ 37	2 ~ 44	1.2 ~ 44

● For flow range with "water," select by temperature and viscosity brackets from the table below.

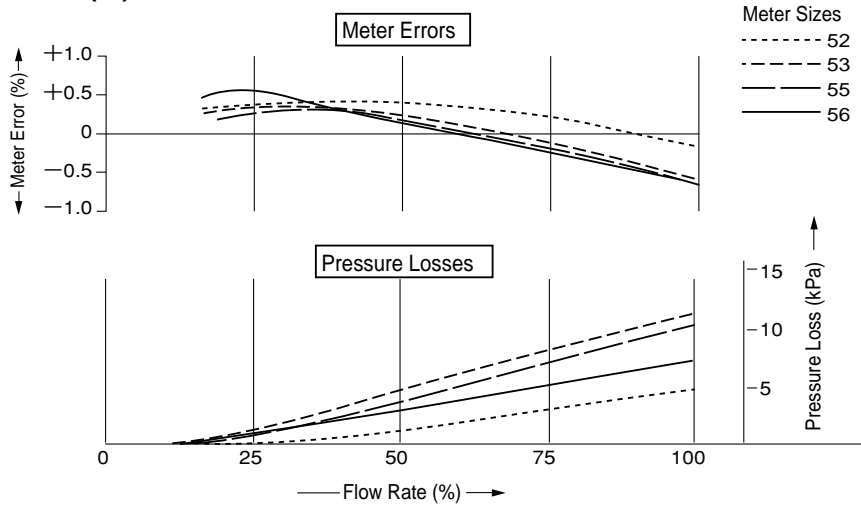
Temperature range	Viscosity range
Max. 30°C	0.8 ~ 2.0 mPa·s
30 ~ 80°C	0.3 ~ 0.8 mPa·s
80 ~ 120°C	Less than 0.3 mPa·s

METER ERRORS AND PRESSURE LOSSES

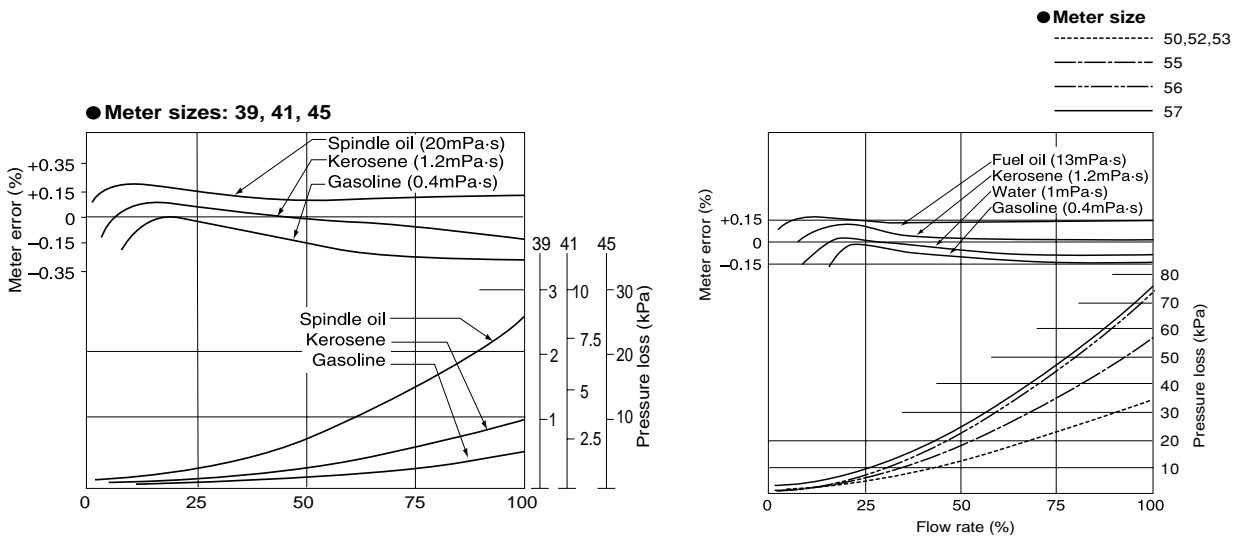
for Oil Service (L)



for Water Service (W)

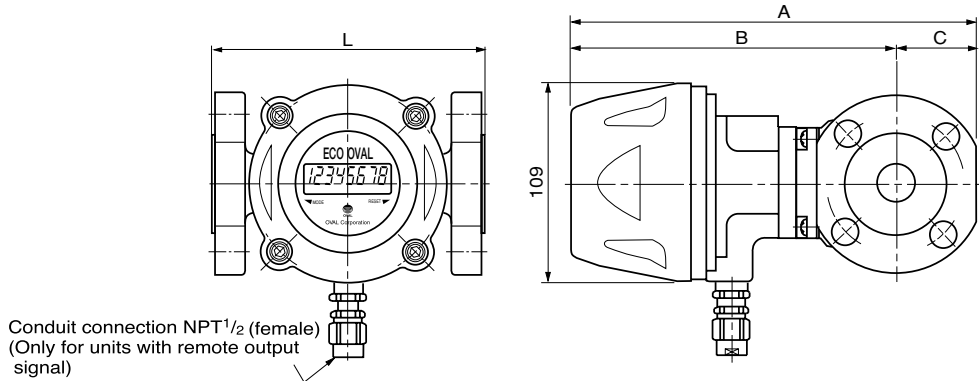


General chemical liquids service (S)



OUTLINE DIMENSIONS (Unit in mm)

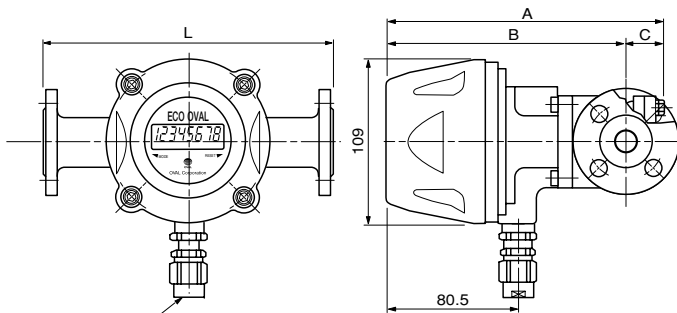
● Meter sizes : 49, 50, 52, 53, 55, 56 (L,W)



Conduit connection NPT¹/₂ (female)
(Only for units with remote output
signal)

Meter size	Material	Nom. size	Flange rating	L	A	B	C	Mass (Approx.)
49	L	20 (3/4")	JIS 10K RF	150	200.5	155.5	45	4.2kg
			ANSI 150 RF	140				
50	L	20 (3/4")	JIS 10K RF	150	205.5	160.5	45	4.2kg
			ANSI 150 RF	140				
52	L	25 (1")	JIS 10K RF	225	218.5	163.5	55	7.2kg
			ANSI 150 RF	218				
	W	20 (3/4")	JIS 10K RF	225	208.5	163.5	45.5	7.5kg
			ANSI 150 RF	225				
53	L	40 (1 1/2")	JIS 10K RF	225	232.5	174.5	58	8.7kg
			ANSI 150 RF	221				
53	W	25 (1")	JIS 10K RF	225	229.5	174.5	55	9.1kg
			ANSI 150 RF	225				
55	L	40 (1 1/2")	JIS 10K RF	230	236.5	178.5	58	10.7kg
			ANSI 150 RF	225				
55	W	40 (1 1/2")	JIS 10K RF	245	237.5	179.5	58	11.2kg
			ANSI 150 RF	245				
56	L	50 (2")	JIS 10K RF	250	255.5	183.5	72	15.5kg
			ANSI 150 RF	250				
56	W	50 (2")	JIS 10K RF	280	255.5	183.5	72	16.9kg
			ANSI 150 RF	280				

● Meter sizes : 39,41,45,50, 52, 53 (S)

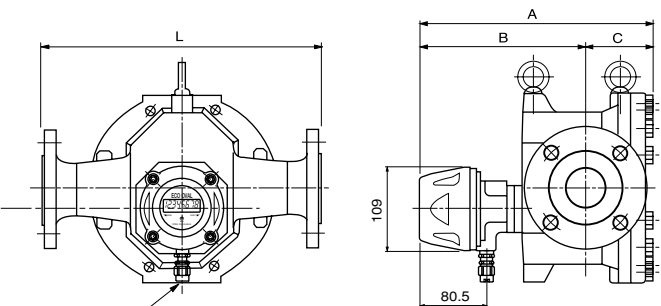


Conduit connection NPT¹/₂ (female)
(Only for units with remote output
signal)

Meter size	Nom. size	Flange rating	L	A	B	C	Mass (Approx.)
39	10 (3/8") ※	JIS 10K RF	150	178.3	149.3	29	7.5kg
		ANSI 150 RF	150				
41	10 (3/8") ※	JIS 10K RF	150	178.3	149.3	29	7.5kg
		ANSI 150 RF	150				
45	10 (3/8") ※	JIS 10K RF	150	178.3	149.3	29	7.5kg
		ANSI 150 RF	150				
50	20 (3/4")	JIS 10K RF	200	193.5	153.5	40	6.1kg
		ANSI 150 RF	198				
52	25 (1")	JIS 10K RF	200	185.5	142.5	43	7.1kg
		ANSI 150 RF	200				
53	25 (1")	JIS 10K RF	200	209	153.5	55.5	8.1kg
		ANSI 150 RF	200				

※ : 1/2" for ANSI flanged sensors.

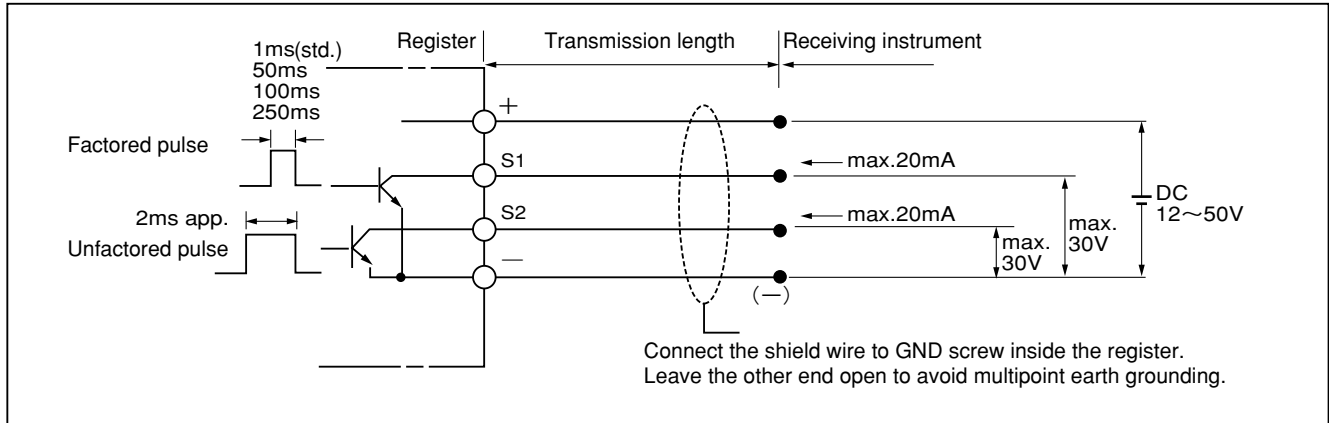
● Meter sizes : 55, 56, 57 (S)



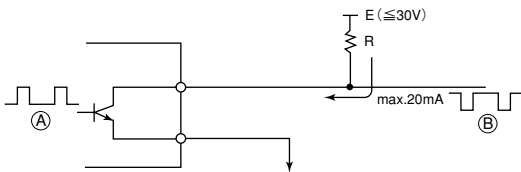
Conduit connection NPT¹/₂ (female)
(Only for units with remote output
signal)

Meter size	Nom. size	Flange rating	L	A	B	C	Mass (Approx.)
55	40 (1 1/2")	JIS 10K RF	230	217.5	155.5	62	22kg
		ANSI 150 RF	233				
56	50 (2")	JIS 10K RF	250	247.5	174.5	73	26kg
		ANSI 150 RF	258				
57	50 (2")	JIS 10K RF	350	282.5	197.5	85	36kg
		ANSI 150 RF	357				

■ WIRING DIAGRAM



For reference purpose, an arrangement to convert open collector pulse into voltage pulse is shown.



NOTE: Select load resistance value R such that the current flowing into the transistor is held below 20mA in relation with E.

Precautions

1. Both factored pulse and unfactored pulse output is of open collector output.
Use by connecting a load on the part of receiving instrument that the rate is held within 30VDC, 20mA max.
2. Exercise care to avoid exceeding the rating or incorrect wiring connections with regard to polarities that could result in damage to the register.
3. Depending on the type of cable, select either unfactored or factored pulses.

■ PRODUCT CODE EXPLANATION

Item	Code No.												Description				
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫					
Type	L	G													Eco Oval		
Meter ID code (also material code)	L														Meter body: Cast Iron (FC250): Rotors: Special resin		
	W														Meter body: Bronze (BC2): Rotors: Special resin		
	S														Meter body: Stainless steel (about SUS316): Rotors: SUS 316 Sintered metal		
Meter size															L	W	S
	3	9													—	—	10mm (3/8") ※
	4	1													—	—	10mm (3/8") ※
	4	5													—	—	10mm (3/8") ※
	4	9													20mm (3/4")	—	—
	5	0													20mm (3/4")	—	20mm (3/4")
	5	2													25mm (1")	20mm (3/4")	25mm (1")
	5	3													40mm (1 1/2")	25mm (1")	25mm (1")
	5	5													40mm (1 1/2")	40mm (1 1/2")	40mm (1 1/2")
5	6													50mm (2")	50mm (2")	50mm (2")	
5	7													—	—	50mm (2")	
Flange rating															A		Always "A"
															1		JIS 10K RF
															2		ANSI 150 RF (In case of Meter ID code W, not available.)
														0		Always "0"	
														—			
Power source															D		Battery powered (without pulse generator)
															G		Externally powered
Explosionproof ratings CE marking															2		CE-approval (EC-Type)
Generator type															0		Less pulse generator
															3		Open collector factored pulse (pulse width 1ms), unfactored pulse (pulse Width 2ms)
															5		Open collector factored pulse (pulse width 50ms), unfactored pulse (pulse Width 2ms)
															6		Open collector factored pulse (pulse width 100ms), unfactored pulse (pulse Width 2ms)
															7		Open collector factored pulse (pulse width 250ms), unfactored pulse (pulse Width 2ms)
														0		Always "0"	

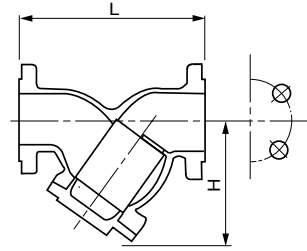
※ : 1/2" for ANSI flanged sensors.

※ : If TIIS Explosionproof approval is required, see GS. No. GBB350.

■ STRAINERS

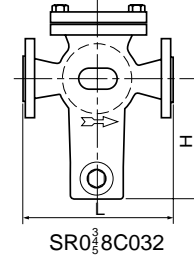
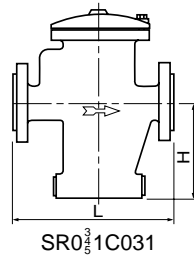
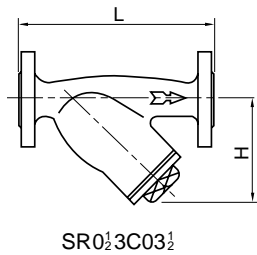
● OIL service, outline dimensions

Item	Description
Operating Temp. Range (fluid temp.)	0 ~ 120°C
Max. Operating Pressure	1.18MPa
Materials	Body
	Net
Finish	Munsell 2.5YR 6/13



Model number	Nominal size	Flange rating	L (mm)	H (mm)	std. screen mesh	Mass(Approx.)	Applicable meters (L)	Applicable meters (W)
SS5277A	20mm (3/4")	JIS 10K RF	125	85	80	3.4kg	49,50	52
		ANSI 150 RF	115					
SS5377A	25mm (1")	JIS 10K RF	140	105	60	5.3kg	52	53
		ANSI 150 RF	133					
SS5577A	40mm (1 1/2")	JIS 10K RF	170	130	60	7.7kg	53,55	55
		ANSI 150 RF	166					
SS5677A	50mm (2")	JIS 10K RF	190	140	60	9.6kg	56	56
		ANSI 150 RF	189					

● General chemical liquids service, outline dimensions



Model number	Nominal size	Flange rating	L (mm)	H (mm)	Body material	Screen material	std. screen mesh	Applicable meters
SR013C031	10mm (3/8")※	JIS 10K RF	180	100	SCS14A	SUS316	200	39,41,45
SR013C032		ANSI 150 RF	178					
SR023C031	20mm (3/4")	JIS 10K RF	180	100	SCS14A	SUS316	200	50
SR023C032		ANSI 150 RF	177					
SR031C031	25mm (1")	JIS 10K RF	230	165	SCS14A	SUS316	100	52,53
SR038C032		ANSI 150 RF	234	209				
SR041C031	40mm (1 1/2")	JIS 10K RF	230	165	SCS14A	SUS316	60	55
SR048C032		ANSI 150 RF	234	209				
SR051C031	50mm (2")	JIS 10K RF	290	190	SCS14A	SUS316	60	56,57
SR058C032		ANSI 150 RF	294	242				

※ : 1/2" for ANSI flanged sensors.

■ ORDERING INFORMATION

Please complete the following form when making inquiries.

1. Model	L_____ <input type="checkbox"/> Standard <input type="checkbox"/> High temp. <input type="checkbox"/> Low temp. <input type="checkbox"/> Jacketed
2. Fluid to be measured	Name_____ Viscosity_____ mPa·s Specific gravity_____
3. Flowrate (L/h, m³/h)	Maximum_____ Normal_____ Minimum_____
4. Fluid temperature (°C)	Maximum_____ Normal_____ Minimum_____
5. Ambient temperature (°C)	Maximum_____ Normal_____ Minimum_____
6. Pressure (MPa)	Maximum_____ Normal_____ Minimum_____
7. Flow direction	Right ⇌ Left, Bottom ⇌ Top
8. Flange connection	Nominal size_____ mm, Flange rating_____
9. Required Linearity	±_____%
10. Explosionproof construction	<input type="checkbox"/> Required class_____ <input type="checkbox"/> Not required
11. Accessories	<input type="checkbox"/> Strainer, <input type="checkbox"/> Air eliminator, <input type="checkbox"/> Companion flange
12. Quantity	Including accessories_____
13. Application	_____(dosing, sampling, blending process, etc.) <input type="checkbox"/> Flow integration, <input type="checkbox"/> Flow indication, <input type="checkbox"/> Record, <input type="checkbox"/> Flow control, <input type="checkbox"/> Batch control, <input type="checkbox"/> CPU interface, <input type="checkbox"/> Others
14. Receiving instrument	Type, manufacturer, model, specifications (input, output, power supply, etc.)
15. Distance between flow meter and receiving instrument	_____m

The specification as of March, 2005 is stated in this GS Sheet. Specifications and design are subject to change without notice.

Sales Representative: