NITTOSEIKO
Taking new steps forward together

SUPER ROTARY FLOW METER

SPECIFICATIONS

SSV11051 23.11

1. Outline

Super Rotary Flow Meter, adopting the microcomputer counter unit on to the rotary piston flow meter which is the simplest construction in the positive displacement flow meter, realize multiple indication and gives wide flow range, high accuracy measuring and improving durability.

2. Features

- Realizing high measuring accuracy of ±0.2%.
- Low pressure loss and easily measuring of high viscosity liquid.
- Realization of long durability with ceramic bearing.
- Alteration of the setting is possible at field by the front switch operation.
- Due to simulated pulse function, easy maintenance at field.
- Total flow rate (total, reset) and instantaneous flow rate (/h, /min, %) are respectively shown on LCD display by MODE switching.
- Alarm for excessive flow rate, upper and lower limit, and battery (Field indication type only) are displayed.
- Output of analog, pulse and alarm signals. (Output type only)
- Field indication type does not require external power source.
- Explosion proof Output type only Ex db ⅡB T4 Gb

3. Specification

Specifications of measuring unit

Nominal size symbol			025		040		050		080		100			
Volume symbol			A0	B0	A0	B0	A0	B0	A0	B0	A0			
Measured fluid			Chemical solutions, food liquids, petroleum, water, etc.											
Nominal size			25A		40A		50A		80A		100A			
Liquid viscosity			0.5～500 mPa·s (Special 0.3 ～30,000 mPa·s)											
Liquid temperature			Non-explosion proof structure : 0～200°C (special -10～200°C for Material symbol S2)											
			Explosion proof structure : 0～120°C (special -10～120°C for Material symbol S2)											
Liquid pressure			2.0 MPa or under (By flange standards)											
Measuring accuracy			Within ±0.5% or within ±0.2%											
Standard connection	Flange		JIS5K,10K,16K,20K, ANSI class 150, 300 (For the details, see paragraph of "Process connection and face-to-face											
Material	Material symbol	FB	Main body : FC200, Measuring chamber : CAC406, Rotor : PPS, GC, AC											
		FF	Main body : FC200, Measuring chamber : FC200, Rotor : PPS, GC, AC											
		F2	Main body : FC200, Measuring chamber : SCS14A, Rotor : PPS, GC, AC											
		DB	Main body : FCD450, Measuring chamber : CAC406, Rotor : PPS, GC, AC											
		DD	Main body : FCD450, Measuring chamber : FCD450, Rotor : PPS, GC, AC											
		D2	Main body : FCD450, Measuring chamber : SCS14A, Rotor : PPS, GC, AC											
		S2	Main body : SCS14A, Measuring chamber : SCS14A, Rotor : PPS, GC, AC											
	FC200: Cast iron; FCD450: Ductile cast iron; CAC406: Cast bronze; SCS14A: Stainless steel casting PPS: Special plastic; GC: Carbon; AC: Corrosion-resistant aluminum													

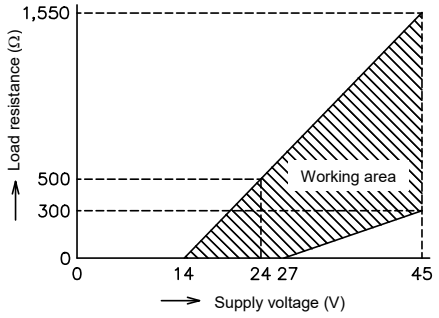
Material & Permissible Pressure	Nominal Pressure	Flange standard	Material symbol	Permissible Pressure (Liquid Temp.～200℃) MPa
	5K	JIS5K	FB/FF/F2 DB/DD/D2/S2	0.5
	10K	JIS10K, ANSI class150		1.0
	16K	JIS16K	DB/DD/D2	1.6
	20K	JIS20K, ANSI class300	DB/DD/D2/S2	2.5

Jacket specifications	Thermal liquid (Hot water, Steam) pressure is 0.5MPa or less. Permissible Temp. 200℃, Permissible Pressure 1.0MPa
Special specifications	Article approved for high-pressure gas service: Only material symbol S2 is manufacturable (up to nominal size 80A).Liquid temperature -10～75℃

Specification of counter unit

Nominal diameter & Volume symbol				025		040		050		080		100
				A0	B0	A0	B0	A0	B0	A0	B0	A0
Type				Field indication type : Without signal output , Output type : Pluse, Alarm, Analog								
Indication	Display unit			Numerical indication: 7-segment LCD 5W x 10H 8-digit, mode/alarm indication: LCD 2H								
	Indicated items	Total flow rate		Unresettable total flow rate: 8-digit (Mode 1), Resettable total flow rate: 8-digit (Mode 4)								
			Unit	×0.01L～×1m³		×0.1L～×1m³				×1L～×1m³		
		Instantaneous flow rate		Instantaneous flow rate (/h): 4-1/2 digit (Mode 2), Instantaneous flow rate (/min): 4-1/2 digit (Mode 3), Instantaneous flow rate (%): 4 digit (Mode 5)								
			Unit (/h)	×1L/h～×0.1m³/h				×0.01～×1m³/h				
			Unit (/min)	×0.01L/min～×1L/min		×0.1L/min～×0.01m³/min						
		Alarm		Alarm for excessive flow rate (OVER), Alarm for upper limit flow rate (HIGH), Alarm for lower limit flow rate (LOW), Battery alarm (BATT) (※1)								
	Switching of indication			Operate by bringing the operating magnet close to the respective switches on the glass face from outside the vessel. POWER: Switches lighting/extinction of the display. MODE: Switches the indicated items. RESET: Resets the resettable total flow rate.								
				(※1) Field indication type only (Note 1) Total flow rate and instantaneous flow rate cannot be displayed at same time. (Note 2) The indicated item (Mode) is switched from outside the case by means of an operating magnet.								
Output (output type only)	Pulse & alarm output	Number of outputs		2 (SIG1, SIG2)								
		Output assignment		To each of SIG1, SIG2, one is selected and assigned from among "Without output", "Unit pulse", "Alarm for excessive flow rate", "Alarm for upper limit flow rate", "Alarm for lower limit flow rate" , "Alarm for upper & lower limit flow", "Alarm for backflow" and " Alarm for error".								
		Type of signal		Voltage no-contact or open collector Voltage no-contact output: Signal level H : Approx. equal to voltage of external power source (at no load) L : 0.5V or less (at no load) Output resistance : Approx. 2.3kΩ (short-circuit protection resistance approx. 100Ω) Open collector output Voltage & current: 27VDC, 30 mA Voltage at ON: 0.5V or less								
		Signal logic		Positive or Negative logic Positive logic: Logic 1 at H (transistor: OFF) Negative logic: Logic 1 at L (transistor: ON)								
		Unit pulse	Unit	0.01L/P～1m³/P		0.1L/P～1m³/P				1L/P～1m³/P		
			Signal width	0.5～200.0ms（Standard 1ms）								
	Analogue output	Number of outputs		1								
		Output assignment		Instantaneous flow rate								
		Type of signal		4～20mADC								
		Conversion accuracy		±0.5% full scale								
		Resolution		1/1,000								
		Allowable load resistance		Refer to allowable load resistance.								
	(Note 3) An external power source is required for "Pulse & alarm output" and "Analog output".											
Power source	Field indication type			Built-in lithium battery (3.6VDC Service life approx. 5 years)								
	Type of output	Pulse & alarm output		External power source required, voltage 12/24VDC ±10%, Current consumption approx. 21～34 mA (with 12VDC power source), approx. 33～60 mA (with 24VDC power source)								
		Analog output		External power source required, voltage 14～45VDC, current consumption approx. 23 mA. Refer to allowable load resistance.								
Ambient temperature				-10～60°C								
Explosion proof				Flameproof enclosure type Ex db ⅡB T4 Gb Note: Output type only								
Radiating fin				Non-explosion proof structure : Single-stage fin in the case where the liquid temperature exceeds 80°C, and double-stage fins in the case where the liquid temperature exceeds 150°C. Explosion proof structure : Double-stage fins in the case where the liquid temperature exceeds 60°C, and cannot be manufactured if the temperature exceeds 120°C.								
Material				Aluminium alloy casting								

Drawing of allowable load resistance



4. Flow range

Accuracy ±0.5%

Unit(m^3/h)

Nominal diameter & Volume symbol	Operating conditions	0.5mPa·s～ Gasoline	1mPa·s～ Water (normal temperature)	Hot water (60.1~120℃)	2mPa·s～ Kerosene	4mPa·s～ Light oil	10mPa·s～ Heavy oil A	50～500mPa·s Heavy oil B / C
025A0	Continuous	0.3 ～ 1.2	0.3 ～ 1.2	0.4 ～ 0.9	0.16～ 1.2	0.13～ 1.2	0.1 ～ 1.2	0.04～ 1.2
	Intermittent	0.3 ～ 1.6	0.3 ～ 1.6	0.4 ～ 1.1	0.16～ 1.6	0.13～ 1.6	0.1 ～ 1.6	0.04～ 1.6
025B0	Continuous	0.46～ 3.0	0.35～ 2.5	0.46～ 2.0	0.35～ 3.0	0.25～ 3.5	0.14～ 3.5	0.12～ 3.5
040A0	Intermittent	0.46～ 4.0	0.35～ 3.5	0.46～ 2.5	0.35～ 5.0	0.25～ 5.0	0.14～ 5.0	0.12～ 5.0
040B0	Continuous	1.1 ～ 7.2	0.84～ 6.0	1.1 ～ 4.8	0.84～ 7.2	0.46～ 8.4	0.35～ 8.4	0.25～ 8.4
050A0	Intermittent	1.1 ～ 10.0	0.84～ 8.5	1.1 ～ 6.0	0.84～ 12.0	0.46～ 12.0	0.35～ 12.0	0.25～ 12.0
050B0	Continuous	2.1 ～ 15.0	1.7 ～ 12.0	2.1 ～ 9.6	1.7 ～ 15.0	0.84～ 17.0	0.7 ～ 17.0	0.53～ 17.0
080A0	Intermittent	2.1 ～ 20.0	1.7 ～ 17.0	2.1 ～ 12.0	1.7 ～ 24.0	0.84～ 24.0	0.7 ～ 24.0	0.53～ 24.0
080B0	Continuous	4.2 ～ 30.0	3.5 ～ 25.0	4.2 ～ 20.0	3.5 ～ 30.0	1.8 ～ 35.0	1.4 ～ 35.0	1.1 ～ 35.0
100A0	Intermittent	4.2 ～ 40.0	3.5 ～ 35.0	4.2 ～ 25.0	3.5 ～ 50.0	1.8 ～ 50.0	1.4 ～ 50.0	1.1 ～ 50.0

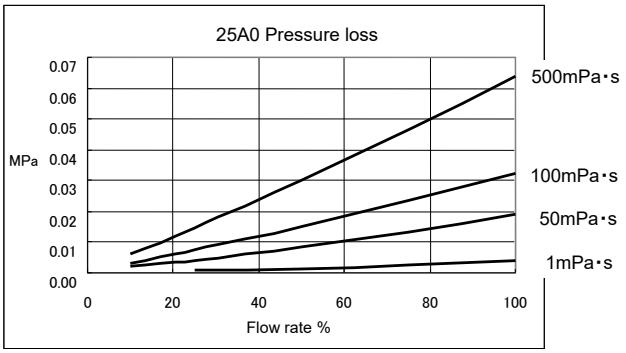
Accuracy ±0.2%

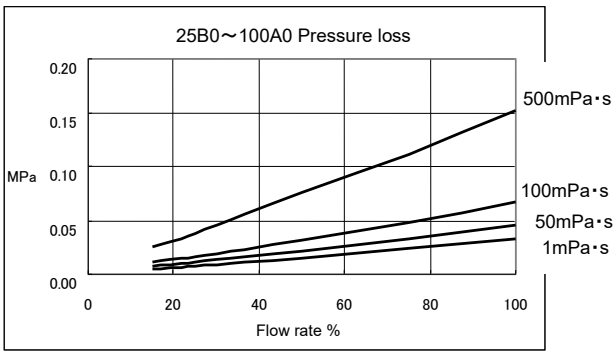
Unit(m^3/h)

Nominal diameter & Volume symbol	Operating conditions	0.5mPa·s～ Gasoline	1mPa·s～ Water (normal temperature)	2mPa·s～ Kerosene	4mPa·s～ Light oil	10mPa·s～ Heavy oil A	50～500mPa·s Heavy oil B / C
025A0	Continuous	0.7 ～ 0.84	0.65～ 0.77	0.6 ～ 0.84	0.4 ～ 0.98	0.3 ～ 0.98	0.2 ～ 0.98
	Intermittent	0.7 ～ 1.2	0.65～ 1.1	0.6 ～ 1.2	0.4 ～ 1.4	0.3 ～ 1.4	0.2 ～ 1.4
025B0	Continuous	1.1 ～ 2.5	0.84～ 2.5	0.8 ～ 2.8	0.42～ 3.5	0.25～ 3.5	0.21～ 3.5
040A0	Intermittent	1.1 ～ 3.5	0.84～ 3.5	0.8 ～ 4.0	0.42～ 5.0	0.25～ 5.0	0.21～ 5.0
040B0	Continuous	2.5 ～ 6.0	2.1 ～ 6.0	2.0 ～ 7.0	1.1 ～ 8.4	0.56～ 8.4	0.49～ 8.4
050A0	Intermittent	2.5 ～ 8.5	2.1 ～ 8.5	2.0 ～ 10.0	1.1 ～ 12.0	0.56～ 12.0	0.49～ 12.0
050B0	Continuous	4.9 ～ 12.0	4.2 ～ 12.0	4.0 ～ 14.0	2.1 ～ 17.0	1.1 ～ 17.0	0.98～ 17.0
080A0	Intermittent	4.9 ～ 17.0	4.2 ～ 17.0	4.0 ～ 20.0	2.1 ～ 24.0	1.1 ～ 24.0	0.98～ 24.0
080B0	Continuous	11.0 ～ 25.0	8.4 ～ 25.0	8.0 ～ 28.0	3.5 ～ 35.0	2.5 ～ 35.0	2.1 ～ 35.0
100A0	Intermittent	11.0 ～ 35.0	8.4 ～ 35.0	8.0 ～ 40.0	3.5 ～ 50.0	2.5 ～ 50.0	2.1 ～ 50.0

(note 1) "Continuous" means a continuous operation of exceeding 8 hour a day, while "Intermittent" means an operation within 8 hours a day.
(note 2) “Please select the nominai size of which 40～60% of Max flow is same as usual flow rate.

5. Pressure loss





Nominal size & volume symbol	Flow rate 100%
025A0	1.6m^3/h
025B0 040A0	5.0m^3/h
040B0 050A0	12.0m^3/h
050B0 080A0	24.0m^3/h
080B0 100A0	50.0m^3/h

6. Process connection and face-to-face dimensions

Unit(mm)

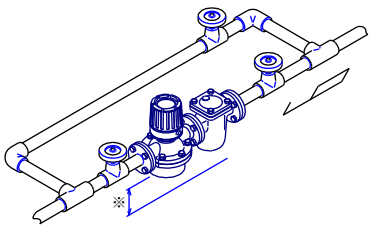
Nominal size&volume symbol	Material symbol	JIS				ANSI, JPI	
		5K	10K	16K	20K	class150	class300
025A0	FB/FF/F2	200	200	--	--	200	--
	DD/D2	200	200	--	204	200	208
	S2	--	200	--	204	200	208
025B0	FB/FF/F2	220	220	--	--	221	--
	DB/DD/D2	220	220	220	224	221	228
	S2	220	220	--	224	221	228
040A0 040B0	FB/FF/F2	300	300	--	--	304	--
	DB/DD/D2	300	300	300	304	304	310
	S2	300	300	--	304	304	310
050A0 050B0	FB/FF/F2	370	370	--	--	378	--
	DB/DD/D2	370	370	370	374	378	384
	S2	370	370	--	374	378	384
080A0 080B0	FB/FF/F2	400	400	--	--	412	--
	DB/DD/D2	400	400	400	408	412	422
	S2	400	400	--	408	412	422
100A0	FB/FF/F2	460	460	--	--	472	--
	DB/DD/D2	460	460	460	472	472	488
	S2	460	460	--	472	472	488

7. Piping method

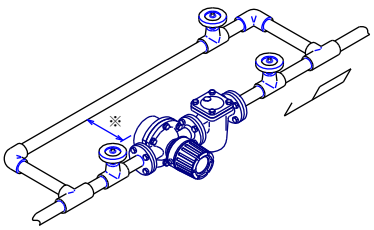
- Install a strainer on the inlet side of the flow meter without fail. To avoid outflow to the downstream side due to damage of internal component parts, install a strainer also on the outlet side of the flow meter.
  (Note) The standard mesh of the strainer element is 60 meshes.
- Install a bypass piping. In designing this bypass piping, take account of protection of the inner elements of the flow meter against the influences of flushing in the early period of operation or discharge of air in the piping as well as ease of maintenance and inspection work.
- Secure a space necessary for inspection, disassembling, etc. of the flow meter in the piping arrangement. Especially, secure a space for enabling disassembling of the measuring chamber of the flow meter.

Example of piping installation

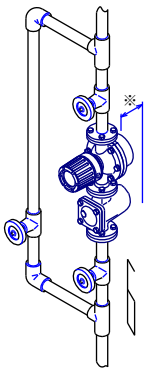
Horizontal piping
(Horizontal installation)



Horizontal piping
(Vertical installation)



Vertical piping

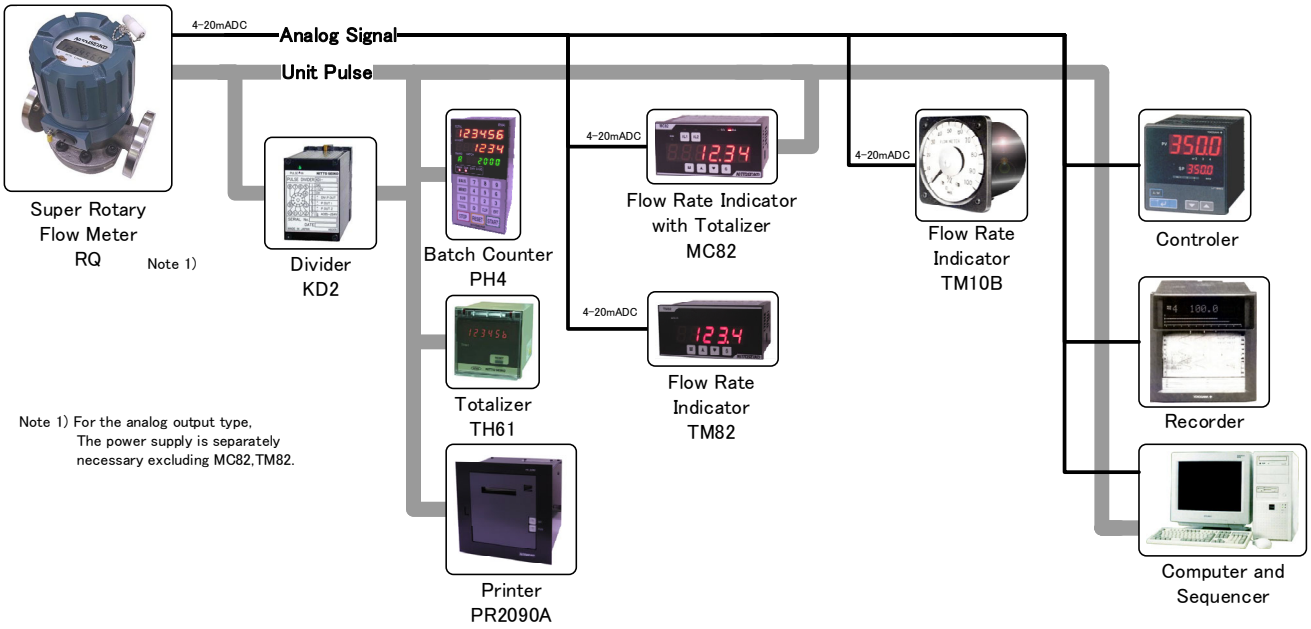


The mark ※ indicates a space necessary for disassembling and inspection.
Install the piping in a way to secure a dimension no smaller than the figures indicated on the table below.

Unit (mm)

Nominal size & volume symbol	025A0	025B0 040A0	040B0 050A0	050B0 080A0	080B0 100A0
※Dimension	154	192	246	312	444

8. Remote measurement system



Note 1) For the analog output type, The power supply is separately necessary excluding MC82,TM82.

※The detailed input/output conditions vary depending on the specifications of the respective converter and receivers. Check with the specification sheet of the respective instruments.

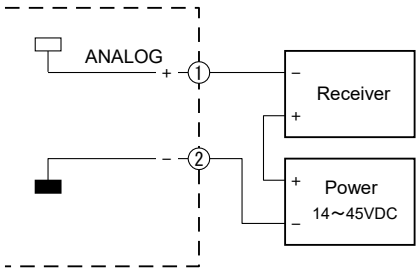
9. Terminal arrangment and wiring

9.1 Terminal arrangement

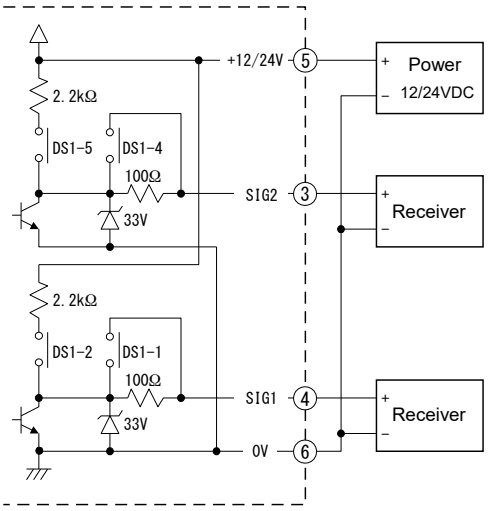
No.	Signal name	
1	＋ ＡＮＡＬＯＧ	Analog output 4～20 mADC
2	－ ＯＵＴＰＵＴ	
3	ＳＩＧ２	Pulse output or alarm output
4	ＳＩＧ１	Pulse output or alarm output
5	＋１２／２４Ｖ	Power source for pulse & alarm output +12/24 V
6	０Ｖ	

9.2 Wiring

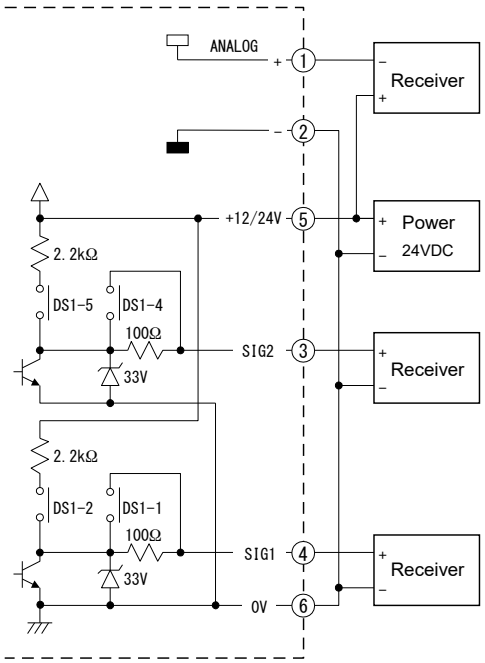
● Connection of analog output



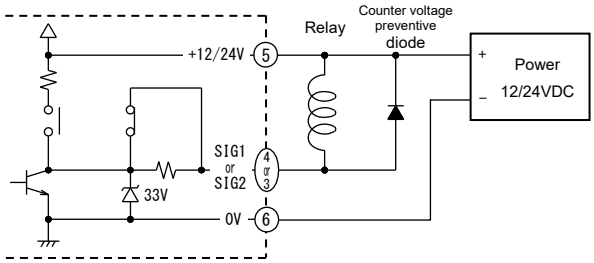
● Connection of pulse and alarm output



● Connection of analog, pulse and alarm output
(Case of power source common to analog, pulse and alarm)



● Case of connection of relay to pulse and alarm output



※ Set open collector signal (negative logic or positive logic) as kind of output signal of the Super Rotary flow meter.

9.3 Cable gland

● Non-explosion proof output type

Applicable cable outer diameter （mm)	Screw size for connection to bottom case.	Material
φ6～１０．５	Ｍ２５×１．５	ＰＡ６６

● Explosion proof output type

Applicable cable outer diameter （mm)	Screw size for connecting to conduit tube.	Screw size for connection to bottom case.	Material
φ１０～１１	Ｇ３／４	Ｍ２５×１．５	Nickel plated brass
φ１１～１２			
φ１２～１３			
φ１３～１４			
φ１４～１５			
φ１５～１６			

Note) 1. Cable gland is TIIS certified product.

Note) 2. Please specify your using cable diameter when ordering.

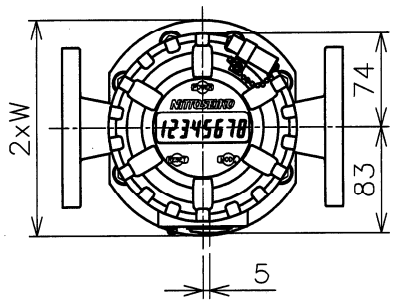
9.4 Cable conditions for explosion-proof / output type

If the ambient temperature of the flow meter is 50 °C or less, use a cable with heat resistant more than 60 °C ,and if it exceeds 50 °C,use a cable with a heat resistantce more than 70 °C.

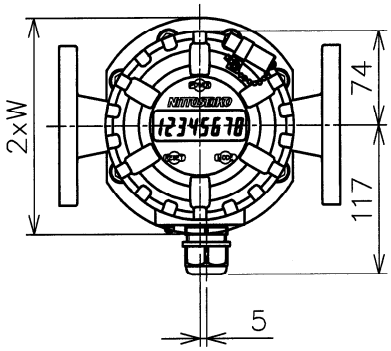
10. External dimension

- Standard type

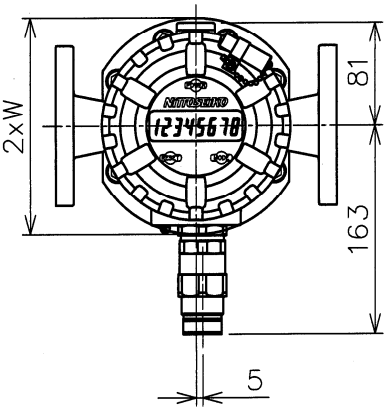
Non-explosion proof
Field counter type

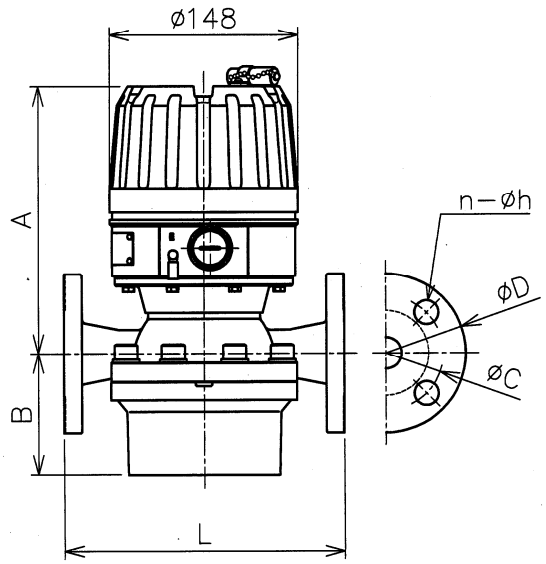


Non-explosion proof
Output type

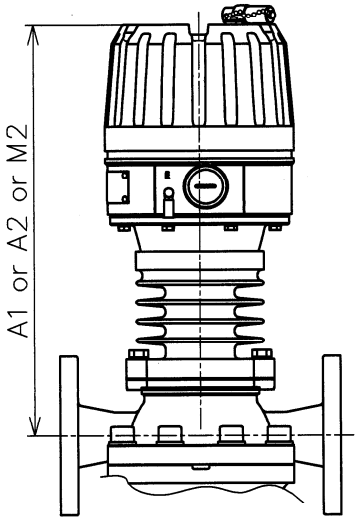


Explosion proof
Output type





With radiating fin



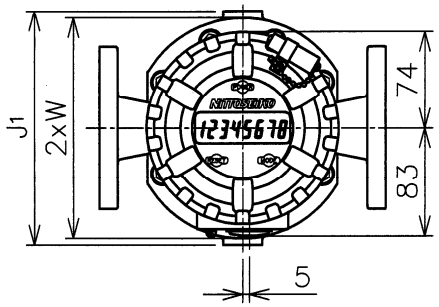
(Unit : mm)

Nominal size	Nominal size symbol & volume symbol	Flange standard	L	A	B	W	D	C	n	h	Approx weight (kg)
25A	025A0	JIS10K	200	247	81	75	125	90	4	19	14
		JIS20K	204								15
	025B0	JIS10K	220	210	96	85	125	90	4	19	16
		JIS20K	224								17
40A	040A0	JIS10K	300	210	96	85	140	105	4	19	18
		JIS20K	304								19
	040B0	JIS10K	300	221	123	110	140	105	4	19	26
		JIS20K	304								27
50A	050A0	JIS10K	370	221	123	110	155	120	4	19	28
		JIS20K	374						8		29
	050B0	JIS10K	370	207	156	143	155	120	4	19	42
		JIS20K	374						8		45
80A	080A0	JIS10K	400	207	156	143	185	150	8	19	44
		JIS20K	408				200	160		23	47
	080B0	JIS10K	400	213	222	170	185	150	8	19	72
		JIS20K	408				200	160		23	75
100A	100A0	JIS10K	460	213	222	170	210	175	8	19	75
		JIS20K	472				225	185		23	78

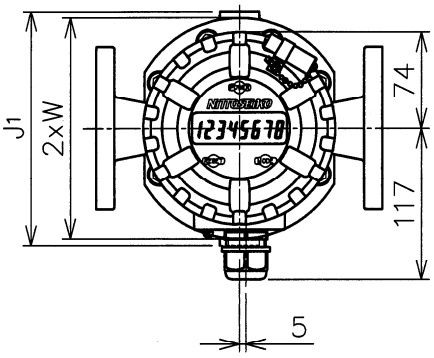
Note) 1. Size "A" with radiating fin for Single-stage:A1=A+113, Double-stage:A2=A+214,
Explosion proof structure counting unit fin: M2 = A + 241.
2. Weight shown above is for material code FF (10K), DD (20K).

● With jacket type

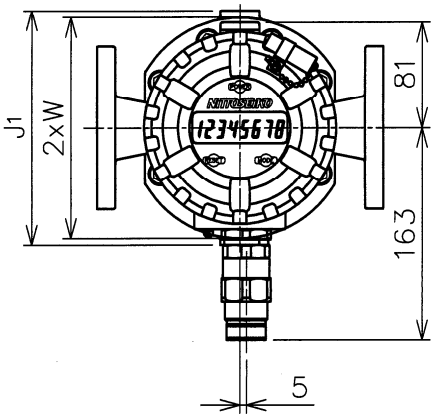
Non-explosion proof
Field counter type

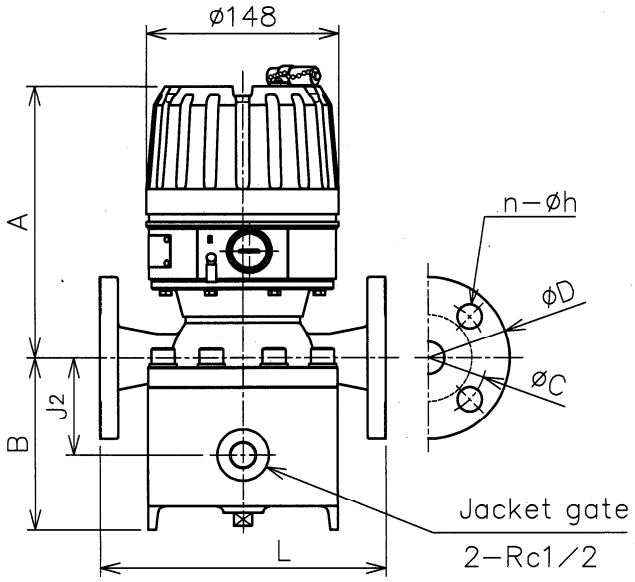


Non-explosion proof
Output type

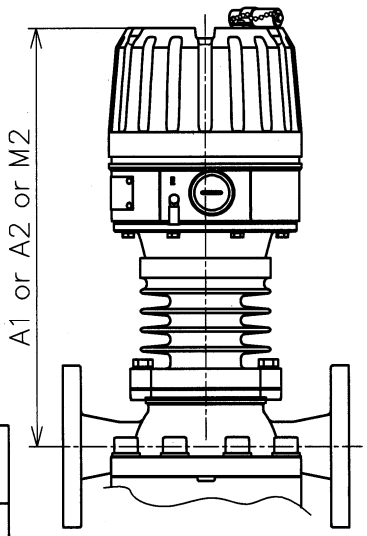


Explosion proof
Output type





With radiating fin

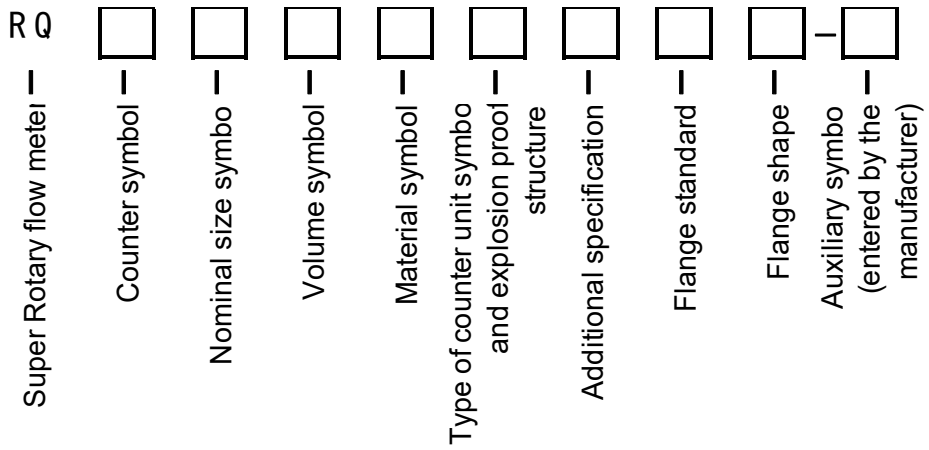


(Unit:mm)

Nominal size	Nominal size symbol & volume symbol	Flange standard	L	A	B	J1	J2	W	D	C	n	h	Approx weight (kg)
25A	025A0	JIS10K	200	247	116	158	55	75	125	90	4	19	19
	025B0	JIS10K	220	210	133	180	75 (70)	85	125	90	4	19	20
40A	040A0	JIS10K	300	210	133	180	75 (70)	85	140	105	4	19	22
	040B0	JIS10K	300	221	175	236	97 (85)	110	140	105	4	19	40
50A	050A0	JIS10K	370	221	175	236	97 (85)	110	155	120	4	19	43
	050B0	JIS10K	370	207	209	300	108	143	155	120	4	19	57
80A	080A0	JIS10K	400	207	209	300	108	143	185	150	8	19	61
	080B0	JIS10K	400	213	285	360	136	170	185	150	8	19	105
100A	100A0	JIS10K	460	213	285	360	136	170	210	175	8	19	108

Note) 1. Size "A" with radiating fin for Single-stage:A1=A+113, Double-stage:A2=A+214, Explosion proof structure counting unit fin: M2 = A + 241.
2. Weight shown above is for material symbol S2.
3. When the material symbol is FF, the dimension of size "J2" is the dimension shown in ().
4. Nominal size symbol & volume symbol 080B0, 100A0 is becomes the production only for materials symbol F2, D2, S2.

11. Product code



● Standard; ○ Manufacturable; ×: Non-manufacturable

Type	Specification code		Specification		25		40		50		80		100
					A0	B0	A0	B0	A0	B0	A0	B0	A0
RQ			Super Rotary flow meter		●	●	●	●	●	●	●	●	●
Counter symbol	3E		Electronic indication		●	●	●	●	●	●	●	●	●
Nominal size symbol ※1	025		Nominal diameter：25A	For the max. flow rate, refer to "Flow Rate Range Table"	●	●							
	040		Nominal diameter：40A				●	●					
	050		Nominal diameter：50A						●	●			
	080		Nominal diameter：80A								●	●	
	100		Nominal diameter：100A										●
Volume symbol	A0		Capacity: Small		●		●		●		●		●
	B0		Capacity: Large			●		●		●		●	
Material symbol ※1	FB		Body: FC200, Measuring chamber: CAC406, Rotor: PPS, GC, AC		●	●	●	●	●	●	●	●	●
	FF		Body: FC200, Measuring chamber: FC200, Rotor: PPS, GC, AC		●	●	●	●	●	●	●	●	●
	F2		Body: FC200, Measuring chamber: SCS14A, Rotor: PPS, GC, AC		●	●	●	●	●	●	●	●	●
	DB		Body: FCD450, Measuring chamber: CAC406, Rotor: PPS, GC, AC		×	●	●	●	●	●	●	●	●
	DD		Body: FCD450, Measuring chamber: FCD450, Rotor: PPS, GC, AC		●	●	●	●	●	●	●	●	●
	D2		Body: FCD450, Measuring chamber: SCS14A, Rotor: PPS, GC, AC		●	●	●	●	●	●	●	●	●
	S2		Body: SCS14A, Measuring chamber: SCS14A, Rotor: PPS, GC, AC		●	●	●	●	●	●	●	●	●
Type of counter unit symbol and explosion-proof structure	12345		Field counter type: Non-explosion proof structure, no signal output, built-in battery.		●	●	●	●	●	●	●	●	●
	PA345		Output type: Non-explosion proof structure, with pulse / alarm / analog output, no battery.		○	○	○	○	○	○	○	○	○
	PAX00		Output type: Explosion proof type, with pulse / alarm / analog output, no battery.		○	○	○	○	○	○	○	○	○
Additional specification Radiating fin Jacket ※1	0		No additional specifications.		●	●	●	●	●	●	●	●	●
	1		Single-stage fin: Non-explosion-proof structure with liquid temperature exceed 80 ° C and 150 °C or less		○	○	○	○	○	○	○	○	○
	2		Double-stage fins: Non-explosion-proof structure with liquid temperature exceed 150 °C and 200 °C or less		○	○	○	○	○	○	○	○	○
	M		Double-stage fin for explosion proof counter: Explosion proof structure with liquid temperature exceed 60 °C and 120 °C or less ※The upper limit of the liquid temperature for the flame proof structure is 120 °C.		○	○	○	○	○	○	○	○	○
	J		Jacket type		○	○	○	○	○	○	○	○	○
	W		jacket with single or double stage fin		○	○	○	○	○	○	○	○	○
Flange standard ※1	005		JIS 5K		○	○	○	○	○	○	○	○	○
	010		JIS 10K		●	●	●	●	●	●	●	●	●
	016		JIS 16K (Material symbol ：DB,DD,D2,S2 only be selected)		○	○	○	○	○	○	○	○	○
	020		JIS 20K (Material symbol ：DB,DD,D2,S2 only be selected)		○	○	○	○	○	○	○	○	○
	AS1		ANSI class 150		○	○	○	○	○	○	○	○	○
	AS3		ANSI class 300 (Material symbol ：DB,DD,D2,S2 only be selected)		○	○	○	○	○	○	○	○	○
Flange shape	F		FF flange		×	●	○	○	○	○	○	○	○
	R		RF flange		●	○	●	●	●	●	●	●	●
Auxiliary symbol (entered by the manufacturer)	A				●	●	●	●	●	●	●	●	●

※1 ： Some combination of specification code is not manufacturable.

	Specification code	Specification	Nominal size symbol & Volume symbol / Material symbol	025B0～080A0							080B0, 100A0						
				FB	FF	F2	DB	DD	D2	S2	FB	FF	F2	DB	DD	D2	S2
Additional specifications	J	With jacket		×	○	○	×	×	○	○	×	×	○	×	×	○	○
	W	With jacket + Radiating fin		×	○	○	×	×	○	○	×	×	○	×	×	○	○

12. Strainer

To prevent foreign matters mixed in the liquid from penetrating into the flow meter to cause troubles, it is necessary to install a strainer immediately before the flow meter or at a point as close as possible to the inflow side.(Element mesh:60 to 200 mesh)

◆◆◆ Matters to be specified at the time of ordering ◆◆◆

1. Type and specification code
2. Name of measured liquid, viscosity, temperature
3. Flow direction of fluid, mounting position

▼The contents given here are subject to change without notice.

NITTOSEIKO CO.,LTD.
30 Nogamibata, Nobu-Cho, Ayabe, Kyoto 623-0041, JAPAN
TEL : +81-773-43-3151(Domestic Operation)
+81-6-6105-5086(Global Sales Section)
FAX : +81-773-43-3155
E-mail:sales@nittoseiko.co.jp
https://www.nittoseiko.co.jp/en.html