NITTOSEIKO
Taking new steps forward together

OIL METER

SPECIFICATIONS

SSV16151 25.07

1. Outline

OIL METER is, using measuring portion of the rotary piston type which is most simple construction among the positive displacement flow meter, primarily intended for use in fuel oil measuring applications. This meter is applied to a boiler fueling, measuring check and control of fuel oil and so on.

2. Feature

- Small and lightweight.
- Easy handling and maintenance due to simplification of inner mechanism.
- Small influence by viscosity variation.

3. Specification

Specification of measuring unit

Nominal size symbol	13-3	20-2	25-2
Measured liquid	Kerosene, light oil and A,B,C heavy oil		
Nominal size	15A	20A	25A
Liquid viscosity	2～500 mPa･s		
Liquid temperature	Normal～80 ℃（Option for temperature 80～120 ℃）		
Liquid pressure	1.0 MPa or less		
Measuring accuracy	Within ± 0.5 %		
Connection	JIS10K 15A	JIS10K 20A	JIS10K 25A
Material	Body: FC200, Rotor: AC3A		

Specification of counter unit

Nominal size symbol			13-3	20-2	25-2
Type of indication			Mechanical		
Display	Display method		Numerical figure roller counter		
	Display item	Total	Non-resetable integrated flow rate: Numerical figure roller 8 digits 9,999,999.9L		
		Min. scale	0.02 L		
Output	Pulse output (Option)	No. of output	1		
		Assignment of output	Unit pulse		
		Kind of signal	Contact signal		
		Rating	See reed switch oscillator ratings.		
		Unit pulse	1 L/P		
Power source			―――		
Ambient temperature			5～60 ℃		
Explosion-protection			Non-explosion proof		
Material			Aluminum die casting		

Reed switch oscillator ratings

Model	Maximum Voltage	Maximum current	Switching capacity	Contact resistance
RS-1-N0	DC100V	0.5A	10W	0.25Ω
	AC125V	0.5A	10VA	0.25Ω

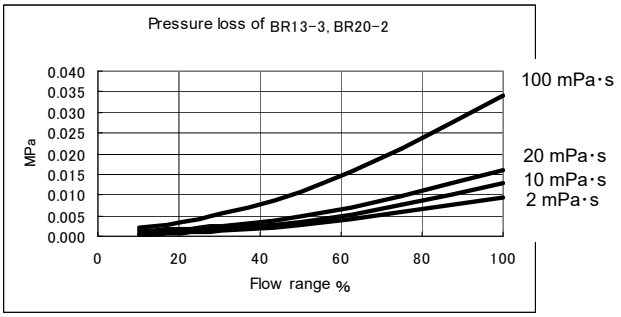
Note) Both maximum current and switch capacity must not exceed the values in the table.

4. Flow range

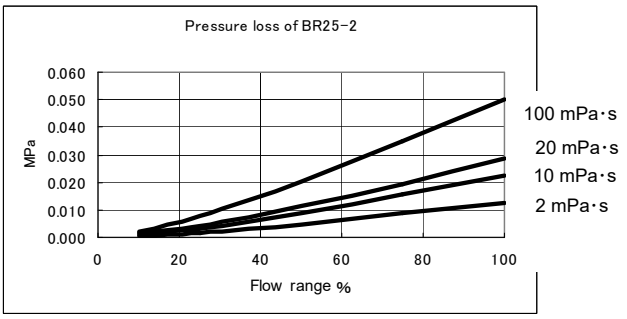
Nominal size symbol	2mPa･s～ Kerosene, light oil	10～500mPa･s Heavy oil
13-3	30～ 200 L/h	10～ 200 L/h
20-2	100～1000 L/h	30～1000 L/h
25-2	250～2500 L/h	150～2500 L/h

※ Please select the type of which 40~60% of Max. flow rate is as same as operation flow rate.

5. Pressure loss

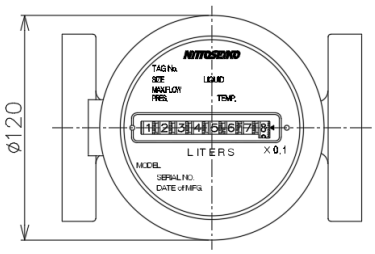


Nominal size symbol	100%Flow
13-3	200 L/h
20-2	1,000 L/h
25-2	2,500 L/ H

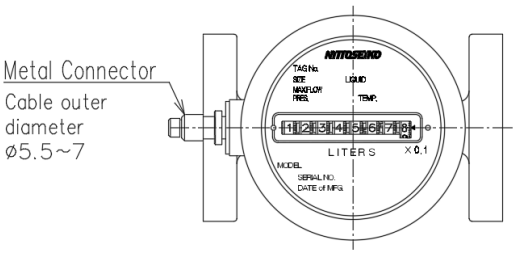


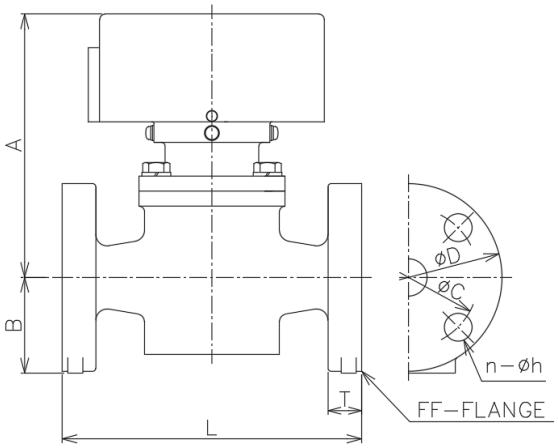
6. External dimensions (mm)

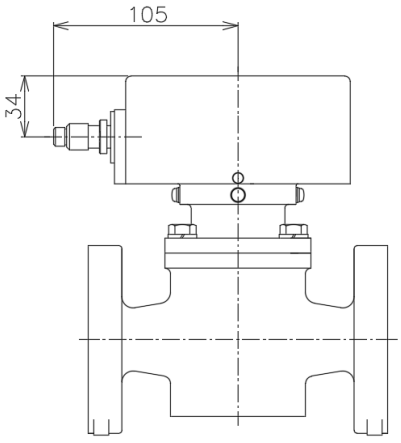
No output type

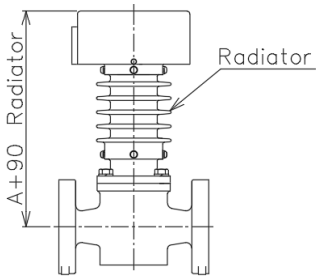


Reed switch pulse transmission type





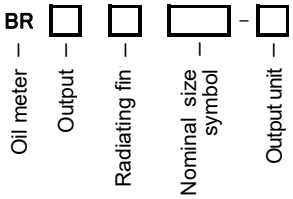




Nominal Size Symbol	Nominal Size	Flange Standard	L	A	B	D	T	C	n	h
13-3	15A	JIS10K	140	148	48	95	16	70	4	15
20-2	20A	JIS10K	160	141	52	100	18	75	4	15
25-2	25A	JIS10K	220	164	64	125	18	90	4	19

※Length A will be 90mm longer when radiating fin is equipped

7. Product code



● : standard ○ : manufacturable

MODEL	Specification code				Specifications	BR13-3	BR20-2	BR25-2
BR					Oil meter	●	●	●
Output					Without	●	●	●
	C				Reed switch 1L/P	○	○	○
Radiating fin					Without(-10 ～ 80℃)	●	●	●
	F				Single fin(over 80℃ but not higher than 120℃)	○	○	○
Nominal size symbol			13-3		Nominal size 13mm Max flow rate 200L/h	●		
			20-2		Nominal size 20mm Max flow rate 1,000L/h		●	
			25-2		Nominal size 25mm Max flow rate 2,500L/h			●
Output unit				P4	Indicate in case of Read switch output	○	○	○

8.Strainer

Please install a strainer (60 mesh) without fail just before the flow meter.

◆◆◆ 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.

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Website: https://global.nittoseiko.com/