

NITTOSEIKO

FLOW METER

Catalog for vessel application



Design and specifications are subject to change without notice.

Please inquiry about detail of respective products.

NITTOSEIKO CO.,LTD.

Control System Division
Global Sales Section

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



[Website]



[Inquiry Form]

Features

- Top Share in Japanese market
- Numerous sales result makes sure the excellent durability and reliability.
- High precision measurement and wide range
- Simple structure and easy maintenance
- No external power, no battery (*for direct reading only)
- Excellent in vibration resistance

Flow meter for engine

Measure the fuel oil and cylinder oil consumption
Please see [type RS](#) and [R](#)



Flow meter for boiler

Please see [type B-F](#) and [BR](#)



Load/off-load of cargo oil and fresh water

Please see [type SS](#) and [K](#)



SUITABLE FOR FUEL OIL MEASUREMENT OF BOILER, GENERATOR, AND ENGINE.

Special Features

- Easy to read by large register
- Can be mounted in any position on the piping
- High accuracy realize accurate measurement of fuel oil consumption.
- Less pressure loss
- Available for monitoring the measuring value at control room with output signal (option)
- It can get class certificate of almost society such as ABS, LR, DNV, NK, GR and so on. (option)



TYPE: RS Rotary Flow Meter

General Specifications:

Piping size: 25A, 40A, 50A, 80A, 100A
Liquid Viscosity: 0.5~500mPa·s
Liquid temperature: Normal~130°C
(Option: Max. 180°C or 200°C)
Liquid pressure: 1.0MPa
(Option: 2.0MPa)
Accuracy: ±0.5% (Option: ±0.2%)
Material: FC200/FC200, FCD450/FCD450,
FC200/CAC406, FC200/SCS14,
SCS14/SCS14

Applicable fluid:

- Oil
- Fuel Oil
- Heavy Oil A, B, C
- M.D.O.
- M.G.O.
- Cylinder Oil
- etc.

Measurable flow range (Unit : m³/Hr)

Nominal size & volume symbol	0.5mPa·s~	1mPa·s~	4mPa·s~	10mPa·s~	50~500mPa·s
025B0 040A0	0.65 ~ 3.0	0.5 ~ 3.0	0.35 ~ 3.5	0.2 ~ 3.5	0.17 ~ 3.5
040B0 050A0	1.5 ~ 7.2	1.2 ~ 7.2	0.65 ~ 8.4	0.5 ~ 8.4	0.36 ~ 8.4
050B0 080A0	3.0 ~ 15	2.4 ~ 15	1.2 ~ 17	1.0 ~ 17	0.75 ~ 17
080B0 100A0	6.0 ~ 30	5.0 ~ 30	2.5 ~ 35	2.0 ~ 35	1.5 ~ 35

SUITABLE FOR FUEL OIL AND CYLINDER OIL MEASUREMENT OF BOILER, GENERATOR, AND ENGINE.



Special Features

- Can measure small flow rate
- Can be mounted in any position on the piping
- High accuracy realize accurate measurement of fuel oil and cylinder oil consumption
- Less pressure loss
- Available for monitoring the measuring value at control room with output signal (option)
- Can get class certificate of almost society such as ABS, LR, DNV, NK, GR and so on (option)

TYPE: **R** Small Size Rotary Flow Meter

General Specifications:

Piping size: 20A, 25A
 Liquid Viscosity: 0.5~500mPa·s
 Liquid temperature: Normal~130℃
 (Option: Max. 180℃ or 200℃)
 Liquid pressure: 1.0MPa (Option: 2.0MPa)
 Accuracy: ±0.5% (Option: ±0.2%)
 Material: FC200/CAC406
 FCD450/CAC406
 FC200/FC200 (25A only)
 FCD450/FCD450 (25A only)

Applicable fluid:

- Oil
- Fuel Oil
- Heavy Oil A, B, C
- M.D.O.
- M.G.O.
- Cylinder Oil
- etc.

Measureable flow range (Unit : L/Hr)

Nominal size & volume symbol	0.5mPa·s~	2mPa·s~	5mPa·s~	10mPa·s~	50mPa·s~	100mPa·s~
20B	50 ~ 200	50 ~ 200	35 ~ 200	25 ~ 200	10 ~ 200	5 ~ 200
20C	80 ~ 400	60 ~ 400	50 ~ 400	40 ~ 400	20 ~ 400	10 ~ 400
25C	250 ~ 800	160 ~ 800	100 ~ 800	80 ~ 800	30 ~ 800	15 ~ 800
25A	300 ~ 1,600	160 ~ 1,600	130 ~ 1,600	100 ~ 1,600	40 ~ 1,600	20 ~ 1,600

SUITABLE FOR MEASURE LOADING / OFF-LOADING OF CARGO OIL, SUCH AS LARGE VOLUME MEASUREMENT.



Special Features

- Easy to read by large register
- High accuracy realize accurate control of loading and off-loading.
- It solves problem of noise, vibration and pulsation often seen in large size flow meter.
- Available for monitoring the measuring value at control room with output signal (option)

TYPE: **SS** Slide Vane Flow Meter

General Specifications:

Piping size: 80A, 100A, 150A
 Liquid Viscosity: 0.4~500mPa·s
 Liquid temperature: Normal~120℃
 Liquid pressure: 1.0MPa
 (Option: 2.0MPa)
 Accuracy: ±0.5% (Option: ±0.2%)
 Material: FC200/FC200
 FCD450/FCD450
 SCS13/SCS13

Applicable fluid:

- Cargo Oil
- Fuel Oil
- Heavy Oil A, B, C
- etc

Measureable flow range (Unit : m³/Hr)

Nominal size & volume symbol	0.4mPa·s~	2mPa·s~	5mPa·s~	10mPa·s~	50~500mPa·s
080B0 100A0	12 ~ 60	10 ~ 80	8 ~ 80	5 ~ 80	3 ~ 60
100B0 150A0	24 ~ 120	20 ~ 160	16 ~ 160	10 ~ 160	6 ~ 120

SUITABLE FOR MEASURE LOADING / OFF-LOADING OF CARGO WATER, SUCH AS LARGE VOLUME MEASUREMENT.



Special Features

- Can be mounted in any position on the piping
- Excellent durability and easy maintenance
- Available for monitoring the measuring value at control room with output signal (option)
- No external power, no battery (without signal output type)

TYPE: **K** Turbine Flow Meter

General Specifications:

Piping size: 50A, 80A, 100A, 125A, 150A, 200A
 Liquid temperature: Normal~80℃
 (Option: Max. 150℃)
 Liquid pressure: 1.0MPa (Option: 2.0MPa)
 Accuracy: ±2.0%
 Material: FC200/CAC406
 FC200/SCS13
 SCS13/SCS13

Applicable fluid:

- Water
- Fresh water
- Sea water (option)
- etc.

Measurable flow range (Unit : m³/Hr)

Size (mm)	Nomal temp. ~ 80℃		80 ~ 150℃
	Range ①	Range ②	
50	4 ~ 25	6 ~ 30	6 ~ 30
80	8 ~ 50	12 ~ 80	15 ~ 80
100	10 ~ 80	30 ~ 150	30 ~ 150
125	15 ~ 120	40 ~ 240	44 ~ 240
150	20 ~ 150	60 ~ 300	60 ~ 300
200	30 ~ 250	80 ~ 500	80 ~ 500

SUITABLE FOR MEASURE WATER / OIL CONSUMPTION OF BOILER



Special Features

- Suitable for measuring feed water to boiler
- Can measure high temperature water up to 200℃ (option)

TYPE: **B-F** Water Supply Flow Meter

General Specifications:

Applicable fluid: Water, Hot water
 Piping size: 20A, 25A, 40A, 50A
 Liquid temperature: Normal~110℃
 (Option: Max.200℃)
 Liquid pressure: 1.0MPa
 (Option: 2.0MPa)
 Accuracy: ±1.0%
 Material: FCD450/SCS13
 SCS13/SCS13

Measurable flow range (Unit : m³/Hr)

Nominal size & volume symbol	Normal temp. ~110℃	110~200℃
20A	0.3 ~ 1.5	0.3 ~ 0.9
25A	0.5 ~ 2.5	0.5 ~ 1.5
25B	1.0 ~ 5.0	1.0 ~ 3.0
40A	1.5 ~ 7.0	1.5 ~ 4.5
40B	3.0 ~15.0	3.0 ~ 9.0
50A	3.0 ~15.0	3.0 ~ 9.0
50B	6.0 ~25.0	6.0 ~18.0



Special Features

- Suitable for control oil for boiler
- Small size and light weight realize easy handling.
- Simple inner structure makes easy maintenance

TYPE: **BR** Oil Meter

General Specifications:

Applicable fluid: Kerosene, Light oil, A/B/C Heavy oil
 Piping size: 15A, 20A, 25A
 Liquid temperature: Normal~80℃
 (Option: Max.120℃)
 Liquid pressure: 1.0MPa
 Accuracy: ±0.5%
 Material: FC200

Measurable flow range (Unit : L/Hr)

MODEL	Kerosene Light oil	A/B/C Heavy oil
BR13-3	30 ~ 200	10 ~ 200
BR20-2	100 ~ 1,000	30 ~ 1,000
BR25-2	250 ~ 2,500	150 ~ 2,500