

KAWAKI Product

FS SIGHT FLOW INDICATORS

(Transparent Sight Glass)

- Types:** FS-I-N: With nozzle
 FS-II-P: With flap
 FS-B: With balls
 FS-IV: Normal / reverse dual-use
 FS-T: With rotor vane
 FS-W: With wiper

Diameter: 3/8B-6B flanged type
 Rc 3/8-Rc 2 screwed type

Withstanding Pressure: 1.0 MPa

Temperature: 80°C or less

Construction:

Body: FC250, FCD450, CAC406, SS400, SUS304, SUS316

Main parts: C2801P, SUS304, SUS316

Note

- FS-II type can be provided with a rough flow rate scale.



FS-II-P



FS-B



FS-I-N



FS-IV

FSJ SIGHT FLOW INDICATORS

(Compact Type)

- Types:** FSJ-II: With flap
 FSJ-B: With balls

Diameter: Rc 3/8-Rc 1

Withstanding Pressure: 1.0 MPa

Temperature: 80°C or less

Construction:

	Body	Main parts
For oils:	A2017	C2801P
For water:	C3604B	C2801P
For chemicals:	SUS304	SUS304



FSJ-B

FS-M, FS-O SIGHT FLOW INDICATORS

(Magnet Following Type)

- Types:** FS-M: Magnet following sight flow
 FS-O: Magnet following sight flow for small flow rate

Diameter: FS-M: 3/8B-6B flanged type
 Rc 3/8-Rc 2 screwed type

FS-O: 3/8B-1B flanged type
 Rc 3/8-Rc 1-1/2 screwed type

Withstanding Pressure: 1.0 MPa

Temperature: 80°C or less

Construction:

Body: FC250, FCD450, CAC406, SS400, SUS304, SUS316

Main parts: C2801P, SUS304, SUS316



FS-M

SF FLOW METER & FLOW SWITCH

Types: SF-M: Instantaneous flow indicator

SF-MA: Instantaneous flow indicator + lower (or upper) microswitch

SF-MAA: Instantaneous flow indicator + lower & upper microswitches

Diameter: 3/8B-12B flanged type, Rc 3/8-Rc 1-1/2 screwed type

Withstanding Pressure: Standard: 1.0 MPa

Special order: 30 MPa

Temperature: Standard: 80°C or less

Special order: 300°C or less

Accuracy: SF-M: ±3% of readings

SF-MA, SF-MAA: ±5% of readings

Contact Capacity:

Microswitches used for contacts are classified into the following three types according to diameter and flow rate:

- 15A : 125, 250 or 480 VAC
- 0.5A: 125 VDC 0.25A: 250 VDC
- 5A : 125 or 250 VAC
- 0.5A: 125 VDC 0.25A: 250 VDC
- 10A : 125 or 250 VAC

Characteristics:

- Most suitable for opaque liquids (oils, etc), high-temperature and high-pressure fluids. No restrictions on flow direction.
- The contact of the SF-MA·MAA standard flow switch is internally variable, but an external variable type can also be manufactured for frequent variations.
- Complete waterproof type (IEC IP67) is also manufactured for outdoor or severe-atmosphere use.

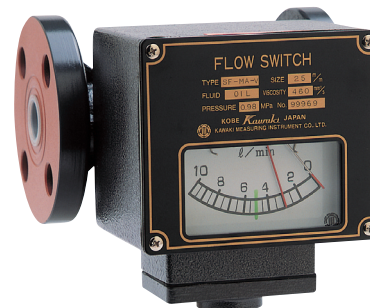
Construction:

Body: FC250, CAC406, SS400, SUS304, SUS316, SUS316L

Main parts: C3604B, SUS304, SUS316, SUS316L

Note

- For use in high vibration places, use vibration-proof type.



SF-MA

SA FLOW METER & FLOW SWITCH

(Proximity switches are used for small flow rate.)

Types: SA-M: Instantaneous flow indicator

SA-MA: Instantaneous flow indicator + lower (or upper) proximity switch contact

SA-MAA: Instantaneous flow indicator + lower & upper proximity switch contacts

Diameter: 3/8B-1B flanged type

Rc 3/8-Rc 1 screwed type

Withstanding Pressure: Standard: 1.0 MPa

Temperature: Standard: 80°C or less

Special order: 300°C or less

Accuracy: ±3% of readings

Contact Capacity: 50 W: 0.5A, 125 VAC

Self-holding proximity switch

Characteristics:

- Most suitable for relatively small flow rates (0-15 L/min in water) of opaque liquids (oils, etc.), high-temperature and high-pressure fluids.
- No restrictions on the flow direction.

Construction:

Body: FC250, CAC406, SS400, SUS304, SUS316, SUS316L

Main parts: C3604B, SUS304, SUS316, SUS316L

Note

- For use in high vibration places, use vibration-proof type.

FY FLOW METER & FLOW SWITCH

(Compact Type)

Types: FY-M: Instantaneous flow indicator

FY-MA: Instantaneous flow indicator + lower (or upper) microswitch

Diameter: 3/8B-5B flanged type,

Rc 3/8-Rc 1-1/2 screwed type

Withstanding Pressure: 1.0 MPa

Temperature: Standard: 80°C or less

Accuracy: FY-M: ±3% of readings

FY-MA: ±5% of readings

Contact Capacity: 5A; 125, 250 VAC

0.5A; 125 VDC

0.25A; 250 VDC

Characteristics:

- Most suitable for opaque liquids (oils, etc), high-temperature and high-pressure fluids.
- No restrictions on flow direction.
- Available with external contact variable type.

Construction:

Body: FC250, CAC406, SUS304

Main parts: C3604B, SUS304

Note

- For use in high vibration places, use vibration-proof SF type.
- For 1.0 MPa or higher operating pressure, use the SF type designed for high pressure.
- Complete waterproof type (IEC IP67) is also manufactured for outdoor or severe-atmosphere use.



FY-M

KY FLOW METER & FLOW SWITCH

Types: KY-M: Instantaneous flow indicator

KY-MA: Instantaneous flow indicator + lower (or upper) microswitch

Diameter: 3/8B-5B flanged type

Rc 3/8-Rc 1-1/2 screwed type

Withstanding Pressure: 1.0 MPa

Temperature: 80°C or less

Accuracy: ±5% of reading

Contact Capacity: 15A; 125, 250 or 480 VAC

0.5A; 125 VDC

0.25A; 250 VDC

Applications:

Most suitable for flow rate indications and alarms for lubricating oil and fluids containing iron powder.

Characteristics:

- Most suitable for opaque liquids because the indicating section is mechanically sealed from fluid.
- No restrictions on the flow direction.
- The contact position is variable.

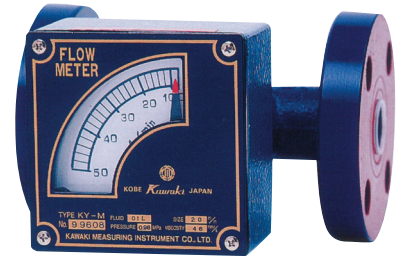
Construction:

Body: FC250, CAC406, SUS304

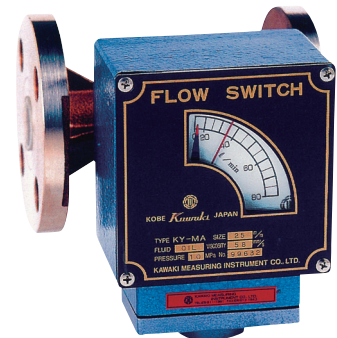
Main parts: C3604B, SUS304

Note

- For use in high vibration places, use vibration-proof SF type.
- For 1.0 MPa or greater operating pressure, use the SF type designed for high pressure.



KY-M



KY-MA

FLOW KILLER

(Thermistor Flow Meter)

Type: FK

This flow meter, using thermistor characteristics, has no movable parts structurally. Fluids to be measured include water or aqueous solutions.

Diameter: 1B-12B flanged type

Operating Pressure: 1.0 MPa

Withstanding Pressure: 1.5 MPa

Liquid Temperature: 0-80°C

Ambient Temperature: -20°C to +60°C

Accuracy: ±3% FS

Indication: LED

Output: 4-20 mA DC, two switching points: S1 and S2 can be set independently.

Power Source: 100, 200 VAC

Characteristics:

- Little or no trouble and no pressure loss because there are no movable parts.
- No restrictions on installation of piping, allowing horizontal and vertical piping (in a full condition).
- This flow meter can be used in magnetic fields because of LED indication, and can be used for pure water measurement.
- The waterproof class is IEC IP67 and can be used outdoors.



FK

RIVER FLOW

(Gear Type Flow Meter)

●**RF-I : Field Indication Type (Instantaneous + Integrated Indication)**

This compact high-precision flow meter measures not only water and oils, but also chemicals. The rotations of two three-lobe elliptic gears output signals directly proportional to flow rates. Receiving the signals, the indicator provides field indication of instantaneous flow rates or integrated flow rates.

Diameter: Rc 1/8-Rc 3/8

Operating Pressure: 1.0 MPa

Withstanding Pressure: 1.5 MPa

Liquid Viscosity: 1,000 mm²/s or less

Ambient Temperature: -5°C to +40°C

Liquid Temperature: 0-80°C

Operating Humidity: 45-85% RH

Accuracy: ±1%

Indication: Instantaneous flow rate indication: 4 digits

Integrated flow rate indication: 8 digits

●**RF-II : Electronic Transmission Type**

Field indication type (integrated type)

Remote transmission type (separate type)

(instantaneous + integrated indication + analog output + high/low alarm contact)

Pulse (contact) signals from the transmitter (RF-S) can be output variously by using a converter in accordance with the application. Available with integrated type (RF-II) in which the transmitter (sensor section), converter and indicating section are integrated, and separate type (RF-II-S).

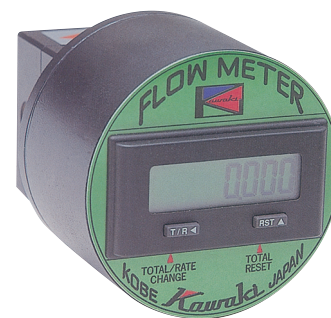
Power Source: AC 100 V / 200 V ±10%

DC 12 V / 24 V (option)

Output Signals: Current Output: 4-20 m ADC

Voltage Output: 0-1 V, 0-5 V, 0-10 V, 1-5 V

Relay Output: Instantaneous high/low alarm contact



RF-I



RF-II