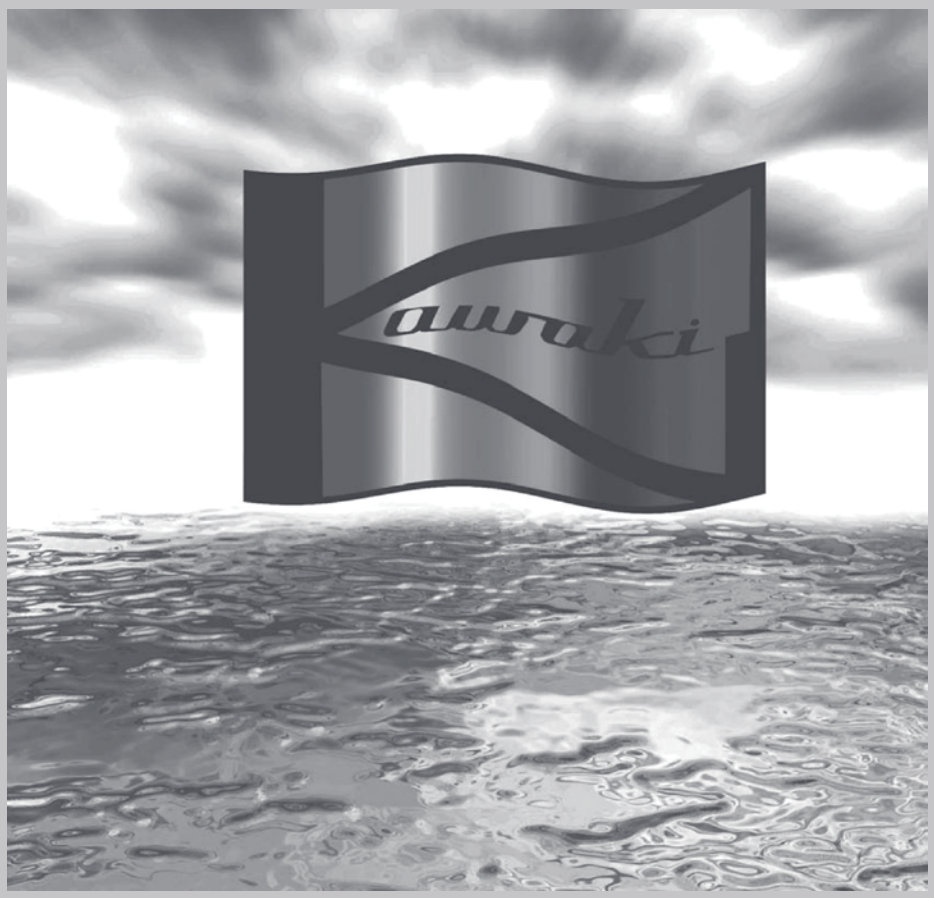

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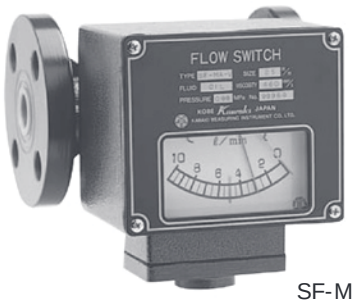
SF FLOW METER & FLOW SWITCH



SF-MA

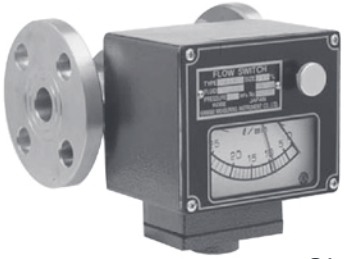
SF-MA
(water proof type)

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℃ or less
Special order: 300℃ or less
Accuracy: ±3% 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.

SA FLOW METER & FLOW SWITCH

(Proximity switches are used for small flow rate)

SA-M



SA-MA
(external varuable type)

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℃ or less
Special order: 300℃ 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.

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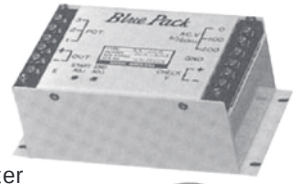
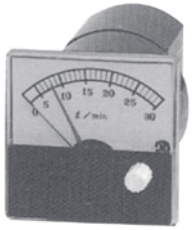
SH FLOW METER (SF Type with Electronic Transmitter)

Transmitter



Converter

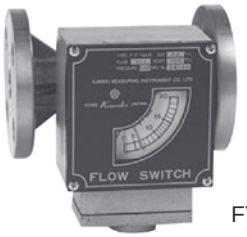

Indicator

This flow meter is an SF type incorporating a transmitter that transmits instantaneous flow rates. Characteristics etc., are the same as those of the SF type.

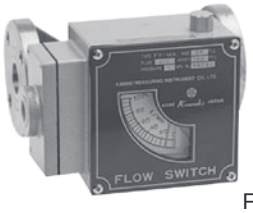
Diameter: 3/8B-12B flanged type
Rc 3/8-Rc 1/2 screwed type
Withstanding Pressure: 1.0 MPa
Accuracy: ±3% of readings
Power Source: 100 V / 200 VAC, 12 V / 24 VDC
Output: 4-20 mA DC, 1-5 V DC
Structure of Transmitter:
Body: FC250. CAC406. SUS304. SUS316. SUS316L
Main parts: C3604B. SUS304. SUS316. SUS316L

FY FLOW METER & FLOW SWITCH (Compact SF Type)

FY-M



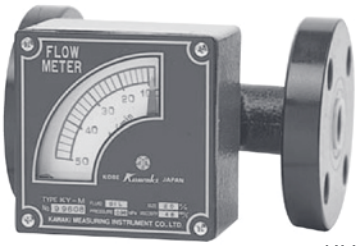
FY-MA



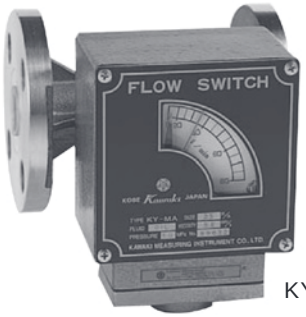
FA-MA
(external variable type)

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℃ or less
Accuracy: ±3% of readings
Contact Capacity: 5A: 125 or 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.

KY FLOW METER & FLOW SWITCH



KY-M



KY-MA

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.
· The scale range is 0-30 L/min in water terms, and 0-20 L/min in oil terms.

FLOW KILLER (Thermistor Flow Meter)

FK

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: S_1 and S_2 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.

RIVER FLOW (Gear Type Flow Meter)

RF-Ⅰ

G36-301

RF-S

RF-Ⅰ-S

●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 mm^2/s or less
Ambient Temperature: –5℃ to +40℃
Liquid Temperature: 0-80℃
Operating Humidity: 45-85% RH
Accuracy: ±1%
Indication: Instantaneous flow rate indication: 4 digits
Integrated flow rate indication: 8 digits

RF-Ⅱ

KSP-582

RF-S

RF-Ⅱ-S

●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 trasmitter (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

RFH for High-Viscosity and High-Pressure Fluids

(Instantaneous + Integrated Indication)

RFH

This RIVER FLOW is modified for high-viscosity and high-pressure fluids, which is most suitable for measuring the flow rates of greases, and in hydraulic circuits of construction equipment, earthmoving equipment, etc.

Diameter: Rc 1/4-Rc 1/2
Operating Pressure: 21 MPa
Withstanding Pressure: 31 MPa
Operating NLGL No. and Consistency: NLGL: NLGL NO. 066-6
Consistency range: 85-475
Ambient Temperature: -5℃ to +40℃
Liquid Temperature: 0℃ to 80℃
Accuracy: ±1%
Indication: Instantaneous flow rate indication: 4 digits
Integrated flow rate indication: 8 digits
Characteristics:

- No restrictions on the installation location in piping lines as it can be used in 21 MPa oil pressure lines.
- Can be used for grease of any consistency.
- Can also be used as a stroke gauge on construction equipment, earthmoving equipment, etc.

FS-C / FS-N SIGHT FLOW INDICATORS WITH NEEDLE VALVE

FS-C

FS-N

Types: FS-C: The capped needle valve prevents access by unauthorized personnel after setting the oil level.
FS-N: The needle valve is a vibration-proof 2.0 MPa type, allowing high-precision adjustment of trace amounts.
Diameter: FS-C: Rc 1/4 to Rc 1-1/2
FS-N: Rc 1/4 to Rc 1
Withstanding Pressure: 1.0 MPa
Temperature: 80℃ or less
Construction:

FS-C:	Flow sight body		FCD450
		main parts	C2801P
	Needle valve body		CAC406
		main parts	C3604B
FS-N:	Flow sight body		FCD450
		main parts	C2801P
	Needle valve body		C3771B
		main parts	C3604B

Note

- In order to prevent damage to window glass, the FS-K type, complying with fire laws, with a steel protective cover and with no window glass, is also available. For small flow rates and for measuring deep-black oils, use the FS-O type.

FI SIGHT FEED INDICATOR

FI

Types: FI-1 to FI-12

The flow direction is from side to bottom, and the inlet side is provided with a needle valve so that oil amounts can be controlled.

Diameter:	Inlet	Outlet	
FI-1:	Rc 1/4	× Rc 1/2	max. flow rate 3 L/min.
FI-2:	Rc 3/8	× Rc 1/2	max. flow rate 3 L/min.
FI-3:	Rc 1/2	× Rc 1/2	max. flow rate 3 L/min.
FI-4:	Rc 1/4	× Rc 3/4	max. flow rate 5 L/min.
FI-5:	Rc 3/8	× Rc 3/4	max. flow rate 5 L/min.
FI-6:	Rc 1/2	× Rc 3/4	max. flow rate 5 L/min.
FI-7:	Rc 3/4	× Rc 3/4	max. flow rate 5 L/min.
FI-8:	Rc 1/4	× Rc 1	max. flow rate 5 L/min.
FI-9:	Rc 3/8	× Rc 1	max. flow rate 5 L/min.
FI-10:	Rc 1/2	× Rc 1	max. flow rate 5 L/min.
FI-11:	Rc 3/4	× Rc 1	max. flow rate 5 L/min.
FI-12:	Rc 1	× Rc 1	max. flow rate 10 L/min.

Withstanding Pressure: 1.0 MPa

Temperature: 80℃ or less

Construction:	Body:	AC-8BT6
	Main parts:	C3604B
	Needle valve:	SUS304

Note

· In order to prevent damage to the window glass, a steel-protective-cover-equipped type, complying with fire laws, is also manufactured.

KFS FLOWING INDICATOR


KFS

Types: KFS

The flow direction is from bottom to top, and the inlet side is provided with a needle valve so that oil amounts can be controlled. Rough flow rates can be known from the float moving up and down according to changes in oil level.

Diameter: Inlet Rc 3/8 × Outlet Rc 3/8

Flow rate: 0-0.5 L/min. at 150 mm^2/s & 0.2 MPa

Withstanding Pressure: 0.5 MPa

Temperature: 80℃ or less

Construction:	Body:	SS400
	Main parts:	S25C
	Float:	C3604B

Note

· A 3-4 point flow rate scale is optionally available.

MFI MULTIPLE SIGHT FLOW INDICATORS

MFI-6-15

Types: MFI-1 to MFI-10 (1-10 Sights)
Diameter: Inlet Rc 3/8-Rc 3/4
Outlet Rc 3/8
Flow rate: 0-6 L/min. at 220 mm^2/s & 0.2 MPa
Withstanding Pressure: 0.5 MPa
Temperature: 80℃ or less
Construction: Body: SS400. C3604B. SUS304
Main parts: S25C. C3604B. SUS304
Float: C3604B. SUS304
Note
· A 3-4 point flow rate scale is optionally available.

B-MFI BLACK MULTIPLE SIGHT FLOW INDICATORS

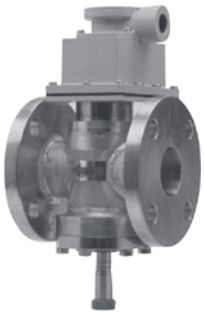
B-MFI-3-15

The multiple sight flow indicators of this type are for black lubricating oils.
The flow rates of oils, the indications of which are difficult to see for the MFI type, can clearly be seen because of indications out of contact with liquids.

Types: B-MFI-1 to B-MFI-10 (1-10 Sights)
Diameter: Inlet Rc 1/2, Rc 3/4
Outlet Rc 3/8
Flow rate: Inlet Rc 1/2
0-3 L/min at 320 mm^2/s & 0.2 MPa
Inlet Rc3/4
0-5 L/min at 320 mm^2/s & 0.2 MPa
Withstanding Pressure: 0.1 MPa
Temperature: 80℃ or less
Construction: Block: body: SS400. C3604B
Flow sight: body: CAC406
main parts: C2801P
Needle valve: body: CAC406
main parts: C3604B
Note
· A 3-4 point flow rate scale is optionally available.

NF FLOW SWITCH

NF-Ⅰ

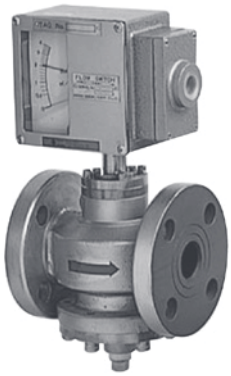


NF-Ⅱ (waterprrof Type)

This flow switch, working as a water (oil) failure/reduction relay, is used for detection and check of flow rates of cooling water, oils, etc.

Types: NF-Ⅰ (fixed contact type)
The set point cannot be moved.
NF-Ⅱ (variable contact type)
The set point can be moved.
Diameter: 3/8B-3B flanged type
Rc 3/8-Rc 2 screwed type
Withstanding Pressure: 1.0 MPa
Temperature: 80℃ or less
Contact Capacity: 15A: 125, 250 or 480 VAC
0.5A: 125 VDC 0.25A: 250 VDC
Construction: Body: FC250. CAC406. SS400. SUS304. SUS316. SUS316L
Main parts: C3604B. SUS304. SUS316. SUS316L

INF FLOW METER & FLOW SWITCH



INF-MA

This flow meter & flow switch is an NF flow switch equipped with an indicator.
Though an area flow meter, it is a compact flow meter that can measure the flow rates of liquids and gases in horizontal piping.

Type: INF-M: Instantaneous flow rate indicator
INF-MA: Instantaneous flow rate indicator +1 contact
Diameter: 3/8B-3B flanged type
Rc 3/8-Rc 2 screwed type
Withstanding Pressure: 1.0 MPa
Temperature: 80℃ or less
Contact Capacity: 5A: 125 or 250VAC
0.5A: 125 VDC 0.25A: 250VDC
Construction: Body: FC250. CAC406. SS400. SUS304. SUS316. SUS316L
Main parts: C3604B. SUS304. SUS316. SUS316L

CY FLOW SWITCH (Flow Switch for Unfilled Conditions)

CY-Ⅰ

This flow switch is most suitable for unfilled return oil (water) piping in which the piping is not filled with oil (water).
This includes a needle for variable contact, the adjustment of which allows variations of the set flow rate.

Type: CY-Ⅰ Standard type
Direction of flow: Side → bottom
Diameter: 3/8B-6B flanged type
Withstanding Pressure: 0.5 MPa
Temperature: 80℃ or less
Contact Specifications: For 220 VAC as standard.
Max. contact capacity: 50 VAAC, 50 WDC
Max. operating current: 0.5 AAC, 0.5 ADC
Max. operating voltage: 300 VAC, 300 VDC
Max. contact resistance: 0.1Ω
Construction: Body: SS400. SUS304. SUS316
Main parts: C3604B. SUS304. SUS316

SR FLOW METER

SR-Ⅰ

SR-Ⅲ

SR-Ⅱ

Types: SR-Ⅰ: Ribbed Pyrex glass tapered tube flow meter
SR-Ⅱ: Inorganic glass tapered tube flow meter
SR-Ⅲ: Methacrylic resin tapered tube flow meter
Diameter: SR-Ⅰ: 3/8B-2B flanged type
SR-Ⅱ: 3/8B-2B flanged type
SR-Ⅲ: 3/8B-3B flanged type
Withstanding Pressure: SR-Ⅰ: 3/8B-3/4B 1.0 MPa
1B-2B 0.7 MPa
SR-Ⅱ: 3/8B-3/4B 1.0 MPa
1B-3B 0.7 MPa
SR-Ⅲ: 3/8B-3/4B 1.0 MPa
1B-3B 0.7 MPa
Temperature: SR-Ⅰ: 80℃ or less
SR-Ⅱ: 60℃ or less
SR-Ⅲ: 50℃ or less
Accuracy: ±2% FS
Construction: Body: FC250. SS400. SUS304. SUS316. SUS316L. PVC
Float: SUS304. SUS316. SUS316L. PTFE. PVC. Ti
Stay: SS400. SUS304. SUS316

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TR FLOW METER (Simple Type)

TR-Ⅰ

TR-Ⅲ

Types: TR-Ⅰ: Pyrex glass tapered tube flow meter
TR-Ⅲ: Methacrylic resin tapered tube flow meter
Diameter: TR-Ⅰ: Rc 1/4-Rc 3/4
TR-Ⅲ: Rc 1/4-Rc 3/4
Withstanding Pressure: TR-Ⅰ: 1.0 MPa
TR-Ⅲ: 1.0 MPa
Temperature: TR-Ⅰ: 80℃ or less
TR-Ⅲ: 50℃ or less
Accuracy: ±2% FS
Construction: Body: C3604B. SS400. SUS304. SUS316
Float: SUS304. SUS316. PTFE. PVC. Ti
Outer casing: SGP. SUS304TPA. SUS316TPA

SR-Ⅱ-P FLOW METER (Panel Type)

SR-Ⅱ-P-N

This SR flow meter for relatively small flow rates is modified for panel mounting or a stand type.
The outlet side or inlet side can also be equipped with a flow control needle valve.

Diameter: Rc 1/4-Rc 1/2
Flow rates:

	Gas (air) max.	Liquid (water) max.
Rc 1/4	1 L/min-10 L/min	30 cc/min-300 cc/min
Rc 3/8	3 L/min-30 L/min	0.1 L/min-1 L/min
Rc 1/2	10 L/min-100 L/min	0.3 L/min-3 L/min

Withstanding Pressure: 1.0 MPa
Temperature: 60℃ or less
Accuracy: ±2% FS
Construction: Body: C3604B. SUS304. SUS316. PVC
Float: SUS304. SUS316. PTFE. PVC. Glass

KNR FLOW METER (Purge Meter)

KNR-3200

KNR-4000

This glass tapered tube flow meter measures micro flow rates of gases and liquids as it is mounted on a panel, directly mounted to piping, or mounted on a stand to monitor the flow rates of analytical instruments and measuring instruments.

	Without valve	With valve
Types:	KNR-100	KNR-100V
	KNR-1125	KNR-1225
	KNR-1150	KNR-1250
	KNR-1175	KNR-1275
	KNR-3100	KNR-3200
	KNR-4000	
	KNR-5000	

Diameter: Rc 1/8, Rc 1/4, Rc 1/2

Flow rates:	Rc 1/8	Gas	Liquid
	KNR-100	30-300 cc/min	
	KNR-1125	150-1,500 cc/min	5-50 cc/min
	KNR-1150	150-1,500 cc/min	5-50 cc/min
	KNR-1175	0.5-5 L/min	20-200 cc/min
	Rc 1/4		
	KNR-3100	10-100 L/min	0.3-3 L/min
	KNR-4000	10-100 L/min	0.3-3 L/min
	Rc 1/2		
	KNR-5000	30-300 L/min	2.5-25 L/min

Withstanding Pressure: 1.0 MPa

Temperature: 60℃ or less

Accuracy: ±2% FS

Construction:	KNR-100. KNR-1125 KNR-1150. KNR-1175	KNR-3100. KNR-4000 KNR-5000
Body:	C3604B	Jurakon, PVC
Float:	Carbon ball, SUS304	Glass, SUS304
Tapered tube:	Hard glass	Pyrex

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PMF/MMF FLOW METER

PMF

MMF

Types: PMF: Panel-mounted type
MMF: Metal-tube area mini flow meter
Diameter: 1/2B-1B flanged type
Rc 1/2-Rc 1 screwed type

Flow rates:	Gas	Liquid
1/2B	10 L/h-100 L/h	0.3-3 L/h
3/4B	0.2 m^3/h-2 m^3/h	10-100 L/h
1B	2.5 m^3/h-25 m^3/h	120-1,200 L/h

Withstanding Pressure: 1.0 MPa
Special specifications up to 30 MPa can be manufactured.
Temperature: 100℃ or less
Special specifications up to 300℃ can be manufactured.
Accuracy: ±3% FS
Construction: Body: SUS304. SIS316
Main parts: SUS316. Ti

SMF FLOW METER (Metal-tube Area Type)

SMF-V

Types: SMF-B: Flow direction: Bottom → Side
SMF-V: Flow direction: Bottom → Top
SMF-H: Flow direction: Horizontal
Diameter: 1/2B-8B flange type
Withstanding Pressure: 1.0 MPa
Special specifications up to 50 MPa can be manufactured.
Temperature: 100℃ or less
Special specifications up to 400℃ can be manufactured.
Accuracy: ±2% FS
Construction: Body: SS400. SUS304. SUS316. PVC
Main parts: SUS304. SUS316. PVC

SMC FLOW METER (Compact Type)

SMC-V

Types: SMC-B: Flow direction: Bottom → Side
SMC-V: Flow direction: Bottom → Top
SMC-H: Flow direction: Horizontal
Diameter: 1/2B-2B flanged type
Withstanding Pressure: 1.0 MPa
Temperature: 100℃ or less
Accuracy: ±2% FS
Construction: Body: SS400. SUS304. SUS316
Main parts: SUS304. SUS316. Ti

STF FLOW METER

STF

This area flow meter using a metal tapered tube, was developed specifically for measuring slurry fluids. This flow meter, using a ribbed glass tube for the indicating section, can also measure opaque liquids such as sludge, and does not cause a condition where the indication is difficult to read due to adhesion of scales, etc.

Diameter: 1/2B-8B flanged type
Withstanding Pressure: 0.7 MPa
Temperature: 80℃ or less
Accuracy: ±2% FS
Construction: Body: SS400. SUS304. SUS316. SUS316L
Main parts: SUS304. SUS316. SUS316L
Liquid-contact lining: Rubber
Epoxy resin
PVC

STF-T FLOW METER

STF-T

This STF flow meter provided with an air chamber between the connecting section and indicating section, was manufactured specifically for slurry fluids. Structurally, slurries have difficulty entering the indicating section even if large amounts of sand, dust, etc. are mixed in fluids.

Diameter: 1/2B-8B flanged type
Withstanding Pressure: 0.7 MPa
Temperature: 80℃ or less
Accuracy: ±2% FS
Construction: Body: SS400. SUS304. SUS316. SUS316L
Main parts: SUS304. SUS316. SUS316L
Liquid-contact lining: Rubber
Epoxy resin
PVC

STF-S FLOW METER

This flow meter uses a metal tapered tube with the indicating section magnet-coupled out of liquids to be measured. There are two types: STF-S-Ⅰ transmitting from remote locations through conversion into linear analog pneumatic signals between 0.02 and 0.098 MPa by pneumatic transmitter incorporated in the indication case, and STF-S-Ⅱ transmitting electric signals.

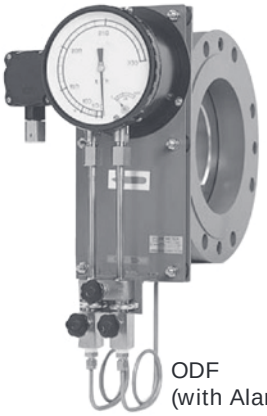
Types: STF-S(A): Instantaneous field indication (with contact)
STF-S-T: Instantaneous field indication +field integration
STF-S-Ⅰ: Instantaneous field indication +pneumatic transmission
STF-S-Ⅱ: Instantaneous field indication +electric transmission
Diameter: 1/2B-8B flanged type
Withstanding Pressure: 1.0 MPa
* Those for high pressure are also available.
Temperature: 80℃ or less
Accuracy: ±2% FS
Construction: Body: SS400
SUS304. SUS316. SUS316L
Main parts: SUS304. SUS316. SUS316L

STF-H FLOW METER

The measurement principles of this flow meter use the same as that of the SR flow meters, except that the tapered tube section is made of metal for high-temperature and high-pressure opaque liquids with the indicating section taken at the top.

Diameter: 1/2B-6B flanged type
Withstanding Pressure: 0.7 MPa
Temperature: 80℃ or less
Accuracy: ±2% FS
Construction: Body: SS400
SUS304. SUS316. SUS316L
Main parts: SUS304. SUS316. SUS316L

ODF ORIFICE FLOW METER



ODF
(with Alarm Contact)

This flow meter measures the fluctuations the pressure difference developing before and after the orifice by the differential pressure gauge, and indicates the flow rates. This differential pressure gauge can also be equipped with an alarm contact that allows remote transmission.

Diameter: 1B-20B flanged type
Fluids: Liquids and gasses
Withstanding Pressure: 1.0 MPa
Temperature: 80˚C or less
Construction: Measuring Section: SS400. SUS304. SUS316. SUS316L. P.V.C
Indicating Section: SUS316

PU U-TUBE DIFFERENTIAL PRESSRUE GAUGE

PU

This U-tube differential pressure gauge measures the pressure difference between the inlet pressure and outlet pressure, which is most suitable for measuring the micro pressure difference of an orifice, duct, etc. Those for H_2O, Hg, oils, etc., are available. Specify the liquid to be measured.

Construction: Body: Wood
SS400
Liquid-contact section: C3604B
SS400
SUS304
Measuring tube: Pyrex glass
Methacrylic resin
Measuring range: ±1 kPa to ±20 kPa

PT LIQUID COLUMN PRESSURE GAUGE

PT

This liquid column pressure gauge is provided with a tank at the back and coupled at the lower end to measure the pressure difference for simplifying the measurement of the U-tube differential pressure gauge. Those for H_2O and Hg are available. When ordering, specify which one.

Measuring Range: 0-40 kPa
Construction: Body: SS400
Liquid-contact section: C3604B
SS400
SUS304

FR AUTOMATIC FLOW CONTROL VALVE

This constant flow control valve maintains the outlet flow rate constant even if the inlet pressure fluctuates.

FR-S

Applications: For maintaining feed oil (water) constant.
For protection including prevention of excessive flow rates, and functioning as a safety valve when hydraulic piping or the like bursts.
For uniform water supply equipment, and maintain flow rates constant in other cases.

Diameter: 3/8B to 2-1/2 flanged type
Rc 3/8-RC 1-1/2 screwed type

Withstanding Pressure: 2.0 MPa-25 MPa

Temperature: 80℃ or less

Construction: SS400. C3604B. SUS304

SV SAFETY VALVE (for High Pressure)

SV-Ⅱ

Types: SV-Ⅰ: Diameter Rc 3/4
Maximum pressure 21 MPa
SV-Ⅱ: Diameter Rc 1
Maximum pressure 11 MPa
Withstanding Pressure: 31.5 MPa
Operating Fluids: Oils
Characteristics:
- Its special valve structure has good response characteristics to severe blowouts.
- The high quality material of the spring assures excellent reproducibility of the set pressure.
- Through designed to resist high pressure, it is compact and low-priced.

Construction: Body: SS400
Main Parts: SUS304
Spring: SWOCV-V

CV RUGGED CHECK VALVE (for High Pressure)

CV-Ⅰ

Types: CV-Ⅰ: Diameter 2B
CV-Ⅱ: Diameter 4B
CV-Ⅲ: Diameter 6B
Operating Pressrue: 11 MPa
Withstanding Pressure: 18 MPa
Characteristics:
- Reliable and quiet operation.
- Lightweight compared with other products.
- Low-priced and quick delivery.

Construction: Body: SS400
Main parts: SUS304

MS-FLOW METER OF NON-SPRING DYNAMIC PRESSURE PLATE TYPE

(Japanese Utility Model No.2004042)

Standard flow meter

High-pressure flow meter

Magnetic shielding flow meter

This flow meter has been developed for the purpose of measuring corrosive fluids (plating liquids, etc.) Conventionally, spring-incorporated or metal tapered tube flow meters would be used for measuring this kind of liquid, but the main parts of the flow meters would seriously deteriorate over time, and their service lives are extremely short due to corrosive fluids. This flow meter, having been then developed, operated on an absolutely physical principle, and it is highly durable, and its performance will not deteriorate when used with corrosive fluids.

Diameter: 2B-8B flanged type
Temperature: 80℃ or less (non-freezing)
Acid Resistance: PH1-7
Withstanding Pressrue: 0.3 MPa
* 0.5 MPa can also be ordered specially.

Characteristics:

- Most suitable for measuring corrosive fluids (plating liquids, etc.)
- Contaminated liquids can clearly be measured because of the indicating section out of contact with the liquid.
- The scale is relatively linear because it is balanced by using a special toggle link mechanism relative to the fluid energy.
- The absolutely physical flow meter hardly deteriorates over time.
- The flow meter is compact and lightweight.
- There are three flow directions: horizontal; left ⇔ right, and from bottom to top. The flow direction from top to bottom is not available.
- Can also be used in magnetic fields by using a magnetic shielding case.

Construction: Body: HTPVC (FRP lining)
Main parts: Ti. SUS16. SUS316L