



PRODUCT CATALOG

Variable Area Flow Meters Constant Flow Regulators Seal Water Flow Meters Oval Gear Flow Meters and Displays Oil Lubrication Flow Monitoring Systems Oil Analyzers Differential Pressure Meters Check Valves



Quality Products from a Trusted Manufacturer

We are happy to present our product catalogue with Kytola Instrument Oy's reliable and high quality flow measuring and monitoring instruments. Our legacy is based on long-term experience of designing and manufacturing tailormade equipment for most industrial branches and for equipment and machine builders, OEM's. The key applications are found in pulp and paper, energy, chemical, mining, steel and food industries.

Our goal is to help all our customers to succeed and further improve their operational reliability by providing proven solutions to process and application challenges. We do this by designing and delivering accurate quality products that are made to endure the demanding conditions in industrial environments and perform reliably.

Our products are precision manufactured to help make your processes and systems more efficient. This catalog only shows a small portion of our capabilities. If you do not find exactly what you are looking for, please do not hesitate to contact us. We are known for being agile and solution-orientated. It is everyday business to us to customize our products to suit most needs and specifications.

Our products are designed and manufactured at our premises in Muurame, Finland. This facility also houses our corporate head quarter, research, development and testing centers. Having these departments within one location allows us to quickly react to specific customer product requirements and ever changing market needs and conditions.

We also stock select products in locations worldwide, which allows us to efficiently meet our customers' demand for short product lead-time together with superior customer service. Based on your process and system needs, our technical support specialists suggest instrumentation to help you with your specific application requirements. In other words: you present your needs and challenges and we provide a cost-efficient and tailored solution.

We look forward to serving you.

Sales phone: +358 20 779 0690

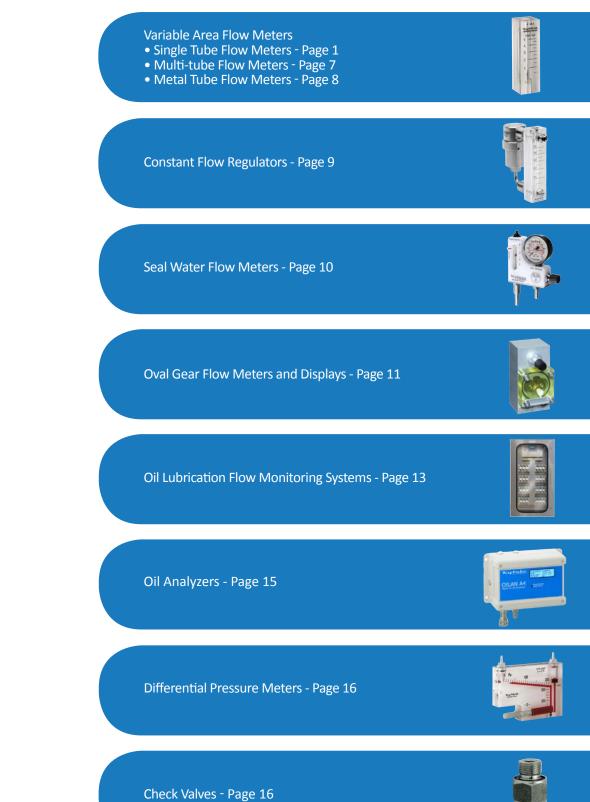
Email: sales@kytola.com

www.kytola.com





Quality Products from a Trusted Manufacturer





SINGLE TUBE

Kev Features:

- High quality acrylic flow meter
 - Clear, easy to read scale
- Inductive low and/or high flow alarm (option)
- Maximum pressure 20 bar
- Maximum temperature 75°C

Applications: • Water treatment

3

2

Height 130 mm

- Sealing water measurements
- Gas flow measurements ٠

Measuring Range:

Water +20°C

- min 2-20 mL/min, max 0.5-6.5 L/min Air +20°C / 1.013 bar (abs)
- min 0.1-0.9 NL/min, max 20-220 NL/min Other water and air ranges, and scales for
- alternative liquids and gases also available

Body:

Acrylic (PMMA)

Connections:

BSP 3/8"

Options:

Please contact us for available options.

С

2

20

15

Height

BA

165 mm

Kev Features:

- High quality acrylic flow meter
- Clear, easy to read scale
- Maximum pressure 20 bar
- Maximum temperature 75°C

Applications:

- Water treatment
- Sealing water measurements
- Gas flow measurements

Measuring Range:

- Water +20°C
- min 0.5-5 L/min, max 5-30 L/min • Air +20°C / 1.013 bar (abs)
- min 20-200 NL/min, max 100-1000 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Body:

Acrylic (PMMA)

Connections:

BSP 3/4" (Adapters available for NPT)

Options:

Please contact us for available options.

D

Key Features:

- High quality acrylic flow meter
- Clear, easy to read scale
- Maximum pressure 20 bar
- Maximum temperature 75°C

Applications:

- Water treatment
- Sealing water measurements

Gas flow measurements

Measuring Range:

- Water +20°C
- min 7.5-40 L/min, max 10-100 L/min
- Air +20°C / 1.013 bar (abs) min 200-1200 NL/min, max 500-2500 NL/min
- Other water and air ranges, and scales for
- alternative liquids and gases also available

Body:

Acrylic (PMMA)

Connections:

BSP 1" (Adapters available for NPT)

Options: Please contact us for available options.



Connections:

• Rapid fittings for outside diameter 6 mm and

Options:

Please contact us for available options.

Key Features:

- High quality acrylic flow meter
- Connections for plastic hose
- Needle valve
- Maximum pressure 10 bar
- Maximum temperature 75°C

Applications:

- Gas flows for analyzers
- Air purging for enclosures
- Gas purging for differential pressure measurements

Measuring Range:

• Air +20°C / 1.013 bar (abs) min 0.2-1.4 NL/min, max 0.5-7.5 NL/min

- Acrylic (PMMA)
- - inner diameter 4 mm hose

Height -94 mm



1

Height

210 mm

00



SINGLE TUBE

Ε



Height 128 mm

Kev Features:

- High quality acrylic flow meter
- Available in single-tube and multi-tube versions
- Flow adjustment valve
- Inductive low and/or high flow alarm (option)
- Maximum pressure 20 bar
- Maximum temperature 75°C

Applications:

- Water and air purging
- Shield gas measurements
- Other gas and liquid measurements

Measuring Range:

- Water +20°C min 2-16 mL/min, max 0.5-2.5 L/min Air +20°C / 1.013 bar (abs)
- min 0.1-0.8 NL/min, max 10-90 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Body:

Acrylic (PMMA)

Connections:

BSP 1/4" (Adapters available for NPT)

Options:

Please contact us for available options.

EA



KPM

Height ~272 mm

max

Key Features:

Kev Features:

Applications:

Adjustable alarm

Flow adjustment valve Various alarm sensor choices

Heat treatment ovens

Measuring Range:

Acrylic (PMMA)

Connections:

Options:

Water +20°C

Body:

Automatic welding lines

• Air +20°C / 1.013 bar (abs)

High quality acrylic flow meter

Maximum pressure 10 bar

Maximum temperature 75°C

min 2–16 mL/min, max 0.5–2.5 L/min

min 0.1-0.8 NL/min, max 10-90 NL/min

Other water and air ranges, and scales for

alternative liquids and gases also available

BSP 1/4" (Adapters available for NPT)

Please contact us for available options.

- Solid, compact construction
- Clog resistant flow adjustment valve
- Built-in tube cleaner
- All models are alarm-ready
- Excellent corrosion and heat resistance
- Maximum pressure 20 bar
- Maximum temperature 100° C

Applications:

- Industrial water purging
- Contaminated water

Measuring Range:

- Water +20°C
- min 0.025-0.4 L/min, max 0.05-1 L/min

Body:

POM or PVDF

Connections:

• BSP/NPT 1/4" or 3/8" or 10 mm compression fittings

Options:

Please contact us for available options.

Height 132 mm

Key Features:

- Sturdy, industrial flow meter
- Flow adjustment valve
- Clear, easy to read scale
- Maximum pressure 20 bar
- Maximum temperature 80°C

Applications:

- Water and air purging
- Sealing liquid monitoring

Measuring Range:

- Water +20°C
- min 2-18 mL/min, max 0.5-3 L/min
- Air +20°C / 1.013 bar (abs) min 0.1-0.9 NL/min max 15-110 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Body:

- Acrylic (PMMA), Grilamid (PA-12) or Trogamid (PA6-3-T)
- **Connections:**
- BSP or NPT 1/4"

Options:







SINGLE TUBE

HV



Height

max

210 mm

Kev Features:

- Sturdy, industrial flow meter
- Good corrosion resistance
- Threaded or socket type connections
- Inductive low and/or high flow alarm (option) •
- Maximum pressure
- 10 bar @ 20°C (10 bar @ 80°C)
- Maximum temperature 50°C @ 2 bar (120°C @ 2 bar)

Applications:

- Process and chemical industries
- Water treatment plants
- Agricultural applications
- Flow measurement in PVC piping
- Reverse osmosis

Measuring Range:

- Water +20°C
- min 0.02–0.11 m³/h, max 0.3–1.8 m³/h Air +20°C / 1.013 bar (abs)
- min 0.015–0.07 Nm³/min, max 0.2–0.9 Nm³/min Other water and air ranges also available

Flow Tube:

Grilamid (PA-12) or PES

Connections:

BSP/NPT 1/2" or 20 mm socket type connection

HK





Height 282 mm max

Kev Features:

- Sturdy, industrial flow meter
- Good corrosion resistance
- Threaded or socket type connections
- Inductive low and/or high flow alarm (option)
- Maximum pressure
- 10 bar @ 20°C (10 bar @ 80°C) Maximum temperature
- 50°C @ 2 bar (120°C @ 2 bar)

Applications:

- Process and chemical industries
- Water treatment plants
- Agricultural applications
- Flow measurement in PVC piping •
- Reverse osmosis

Measuring Range:

- Water +20°C
 - min 0.3–1.2 m³/h, max 1–4.75 m³/h Air +20°C / 1.013 bar (abs)
- min 0.14-0.6 Nm³/min, max 0.4-2.2 Nm³/min • Other water and air ranges also available

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

BSP/NPT 3/4" or 25 mm socket type connection

HT



Key Features:

- Sturdy, industrial flow meter
- Good corrosion resistance •
- Threaded or socket type connections Inductive low and/or high flow alarm (option)
- Maximum pressure
- Maximum temperature
- 50°C @ 2 bar (120°C @ 2 bar)

- Process and chemical industries
- Water treatment plants
- Agricultural applications
- Flow measurement in PVC piping Reverse osmosis

- min 0.5–3 m³/h, max 4–22 m³/h
- Air +20°C / 1.013 bar (abs)
- min 0.35–2 Nm³/min, max 2–14 Nm³/min
- Other water and air ranges also available

Flow Tube:

Grilamid (PA-12) or PES

Height 395 mm max

3

Connections: • BSP/NPT 11/4" or 50 mm socket type connection

10 bar @ 20°C (10 bar @ 80°C)

Applications:

Measuring Range:

• Water +20°C

Kev Features:

flow tube

SINGLE TUBE

KL



Height 310 mm

KD

Large selection of materials No flow adjusting valve

Inductive low and/or high flow alarm (option)

Sturdy, industrial flow meter with protected

- Maximum pressure 30 bar
- Maximum temperature 80°C (120°C)

Applications:

- Water treatment
- Oil measurements
- Sealing water measurements of vacuum pumps

Measuring Range:

- Water +20°C
- min 7.5-40 L/min, max 10-120 L/min
- Air +20°C / 1.013 bar (abs) min 200-1200 NL/min. max 400-3000 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

Grilamid (PA-12) or PES

Connections:

BSP or NPT 1"

Options:

Please contact us for available options.

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Large selection of materials
- · Flow adjusting valve on inlet
- Inductive low and/or high flow alarm (option)
- Maximum pressure 30 bar
- Maximum temperature 80°C (120°C)

Applications:

Measuring and monitoring gas flows

Measuring Range:

• Air +20°C / 1.013 bar (abs) min 200-1200 NL/min, max 400-3000 NL/min

Flow Tube:

Grilamid (PA-12) or PES

Connections:

BSP or NPT 1"

Options:

Please contact us for available options.



Κ



Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Large selection of materials
- Flow adjusting valve on outlet
- Inductive low and/or high flow alarm (option)
- Maximum pressure 30 bar
 - Maximum temperature 80°C (120°C)

Applications:

- Water treatment
- Oil measurements
- · Sealing water measurements of vacuum pumps

Measuring Range:

- Water +20°C min 7.5-40 L/min, max 10-120 L/min
- Air +20°C / 1.013 bar (abs) min 200-1200 NL/min.
- max 400-2800 NL/min • Other water and air ranges, and scales for
- alternative liquids and gases also available

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

BSP or NPT 1"

Options:

Please contact us for available options.

KLFH



- **Key Features:** Sturdy, industrial flow meter with protected flow tube
- Large selection of materials
- Inductive low and/or high flow alarm (option)
 - Maximum pressure 30 bar
 - Maximum temperature 80°C (120°C)

Applications:

- Water treatment
- Oil measurements
- · Sealing water measurements of vacuum pumps

Measuring Range:

- Water +20°C
- min 7.5-40 L/min, max 10-120 L/min
- Air +20°C / 1.013 bar (abs) min 200-1200 NL/min, max 400-3000 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

- Flow Tube:
- Grilamid (PA-12) or PES

Connections:

- DN 25 or DN 40 flanges
- ANSI 1" or ANSI 1½" flanges



Height 310 mm



SINGLE TUBE

TL



Height 373 mm

Kev Features:

- Sturdy, industrial flow meter
- Protected flow tube
- Inductive low and/or high flow alarm (option)
- Maximum pressure 20 bar
- Maximum temperature 80°C (120°C) •

Applications:

- Flush water applications
- Lubrication oil measurement for gear boxes
- Sealing water measurement for vacuum pumps

Measuring Range:

- Water +20°C min 7.5-55 L/min, max 50-400 L/min
- Air +20°C / 1.013 bar (abs)
- min 0.3–1.9 Nm³/min, max 1–12 Nm³/min Other water and air ranges, and scales for
- alternative liquids and gases also available Flow Tube:
- Grilamid (PA-12) or PES

Connections:

BSP or NPT 2"

Options:

Please contact us for available options.

TLFH

Kev Features:

- Sturdy, industrial flow meter
- Protected flow tube
 - Inductive low and/or high flow alarm (option)
 - Maximum pressure 16 bar
 - Maximum temperature 80°C (120°C)

Applications:

- Water treatment
- Flush water applications
- Sealing water measurement for vacuum pumps

Measuring Range:

- Water +20°C min 7.5-55 L/min, max 50-400 L/min Air +20°C / 1.013 bar (abs)
- min 0.3–2 Nm³/min, max 1–12 Nm³/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

Grilamid (PA-12) or PES

Connections:

DN 50 or ANSI 2" flanges

Options:

Please contact us for available options.

TTFH



Height 381 mm

5

Key Features:

- Sturdy, industrial flow meter
- Protected flow tube
- Inductive low flow alarm (option)
- Maximum pressure 16 bar
- Maximum temperature 75°C

Applications:

- Water treatment
- Power plants •
- Swimming pools

Measuring Range:

 Water +20°C min 75-600 L/min, max 100-1000 L/min

Flow Tube:

Acrylic (PMMA)

Connections:

DN 80 flanges

Options:

Please contact us for available options.



Height 317 mm

SINGLE TUBE

Sturdy, industrial flow meter with protected

Inductive low and/or high flow alarm (option)

Large selection of materials

Maximum pressure 30 bar

Flush water applications

Gas flow measurements

Air +20°C / 1.013 bar (abs)

Grilamid (PA-12) or PES

Lubrication oil measurements

min 0.4-2 L/min, max 5-30 L/min

Please contact us for available options.

min 15-70 NL/min, max 150-700 NL/min

Other water and air ranges, and scales for

alternative liquids and gases also available

Flow adjusting valve on outlet

Maximum temperature 80°C (120°C)

Sealing and cooling water measurements

VL



Height

VD

202 mm

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Large selection of materials
- No flow adjusting valve
- Inductive low and/or high flow alarm (option)
- Maximum pressure 30 bar
- Maximum temperature 80°C (120°C)

Applications:

- Sealing and cooling water measurements
- Flush water applications
- Lubrication oil measurements
- Gas flow measurements

Measuring Range:

- Water +20°C
- min 0.4-2 L/min, max 5-30 L/min Air +20°C / 1.013 bar (abs)
- min 15-75 NL/min, max 150-900 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

- Grilamid (PA-12) or PES
- BSP or NPT 1/2"

Options:

Key Features:

flow tube

Please contact us for available options.

Large selection of materials

Flow adjusting valve on inlet

Sturdy, industrial flow meter with protected

VE



~246 mm max

VLFH

Key Features:

Flow Tube:

Connections:

Options:

BSP or NPT 1/2"

Kev Features:

flow tube

Applications:

Measuring Range: • Water +20°C

- Sturdy, industrial flow meter with protected flow tube
- Large selection of materials
- Inductive low and/or high flow alarm (option)
- Maximum pressure 30 bar
- Maximum temperature 80°C (120°C)

Applications:

- Sealing and cooling water measurements
- Flush water applications
- Lubrication oil measurements
- Gas flow measurements

Measuring Range:

- Water +20°C
- min 0.4-2 L/min, max 5-30 L/min Air +20°C / 1.013 bar (abs)
 - min 15-75 NL/min, max 150-900 NL/min
 - Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

- DN 15 or DN 25 flanges
- ANSI 1/2" or ANSI 1" flanges

Options:

Height

320 mm

Please contact us for available options.

BSP or NPT 1/2"

Grilamid (PA-12) or PES

Please contact us for available options.

Inductive low and/or high flow alarm (option) Maximum pressure 30 bar Maximum temperature 80°C (120°C) **Applications:** Sealing and cooling water measurements Flush water applications Gas flow measurements **Measuring Range:** • Water +20°C min 0.4-2 L/min, max 7.5-32.5 L/min • Air +20°C / 1.013 bar (abs) min 15-75 NL/min, max 150-900 NL/min Other water and air ranges, and scales for alternative liquids and gases also available Flow Tube:



Height

218 mm

Options:

Connections:

Height



Connections:



MULTI-TUBE

ExK



(max 12 tubes)

Kev Features:

- Flow adjustment valve
- Maximum pressure 20 bar
- Maximum temperature 75°C

High quality acrylic flow meter

Available in single-tube and multi-tube versions

Applications:

- Water and air purging
- Shield gas measurements
- Other gas and liquid measurements

Measuring Range:

• Water +20°C

- min 2–16 mL/min, max 0.5–2.5 L/min • Air +20°C / 1.013 bar (abs)
- min 0.1–0.8 NL/min, max 10–90 NL/min
 Other water and air ranges, and scales for alternative liquids and gases also available

Body:

Acrylic (PMMA)

Connections:

• BSP 1/2" common inlet, BSP 1/4" separate outlets (Adapters available for NPT)

Options:

Please contact us for available options.

VEx



Key Features:

- Sturdy, industrial flow meter with protected flow tubes
- Available in single-tube and multi-tube versions
- (max 7 tubes)
- Flow adjustment valves on outlet
- Inductive low flow alarm (option)
- Maximum pressure 30 bar
- Maximum temperature 80°C (120°C)

Applications:

- Sealing and cooling water measurements
- Flush water applications
- Lubrication oil measurements
- Gas flow measurements

Measuring Range:

- Water +20°C
- min 0.4 2 L/min, max 5 30 L/min
- Air +20°C / 1.013 bar (abs)
- min 15–70 NL/min, max 150–700 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

 BSP/NPT 3/4" common inlet, BSP/NPT 1/2" separate outlets

Options:

METAL TUBE

MP



Key Features:

- Stainless steel wetted parts
- High pressure and temperature resistance
- Withstands aggressive media
- Maximum pressure: 235 bar
- Maximum temperature: 150°C without alarms

Applications

- Chemical and petrochemical industries
- Power plants
- General flow measurements

Measuring Range:

- Water +20°C
- min 1–10 L/h, max 50–400 L/h
- Air +20°C / 1.013 bar (abs) min 50-300 NL/h, max 1000-12000 NL/h

Connections:

• BSP/NPT/BSPT 1/4" or 1/2" depending on range

Options:

Please contact us for available options.

MP WITH VALVE



Height 140 mm

Key Features:

- Stainless steel wetted parts
- High pressure and temperature resistance
- Withstands aggressive media
- Flow adjusting valve
- Panel mounting
- Maximum pressure: 100 bar
- Maximum temperature: 150°C without alarms

Applications

- Chemical and petrochemical industries
- Power plants
- General flow measurements

Measuring Range:

• Water +20°C

- min 1–10 L/h, max 50–400 L/h
- Air +20°C / 1.013 bar (abs) min 50-300 NL/h, max 1000-12000 NL/h

Connections:

• BSP/NPT 1/4" or 1/2" depending on range

Options:



CONSTANT FLOW REGULATORS

2851



Height 132 mm

3630



Height 132 mm

q

Key Features:

- Provides constant flow of liquids or gases regardless of pressure variations
- High performance, reliable operation
- Stainless steel construction
- Can be used with Model L flow meter

Applications:

- Control of sealwater or flushwater
- Water or air purging

Flow Range:

- Water +20°C min 15-85 mL/min, max 0.5-3 L/min
- Air +20°C / 1.013 bar (abs) min 0.5-2.5 NL/min, max 10-110 NL/min
- Air scale has always to be calibrated according to the actual inlet pressure and temperature.

Maximum differential pressure 20 bar

Body:

- AISI 316
- **Connections:**
- BSP or NPT 1/4"

Options:

Please contact us for available options.

Provides constant flow of liquids or gases

Key Features:

- regardless of pressure variations High performance, reliable operation
- Aluminium or stainless steel construction
- Supplied with Model L flow meter
- Water or air purging
- Gas purging in Δp measurements
- Hydrostatic density measurements
- Water max 1.5 L/min
- Air max 60 NL/min at 6 barg
- Air scale has always to be calibrated according to the actual inlet pressure and temperature.

Maximum differential pressure

- AISI 316 or aluminium
- **Connections:** • BSP or NPT 1/4"

Options:

Please contact us for available options.

2914



Height -300 mm

Height

~160 mm

3631

Key Features:

- Provides constant flow of liquids regardless of pressure variations
- Needle valve for flow adjustment
- High performance, reliable operation
- Stainless steel construction
- Can be used with Model VL flow meter

Applications:

- Control of sealwater and flushwater
- Water purging
- Batching of liquids

Flow Range:

- Water +20°C
 - max 20 L/min
- Maximum differential pressure

• 12 bar (20 bar on request)

Body:

• AISI 316

Connections: • BSP or NPT 1/2"

Options:

Please contact us for available options.



- Provides constant flow of liquids or gases regardless of pressure variations
- Adjustable alarm
- High performance, reliable operation
- Aluminium or stainless steel construction
- Supplied with Model L flow meter

Applications:

- Water purging for instruments
- Air purging in level measurements
- Gas purging in Δp measurements

Flow Range:

- Water max 1.5 L/min
- Air max 60 NL/min at 6 barg
- Air scale has always to be calibrated according to the actual medium, inlet pressure and temperature.

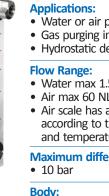
Maximum differential pressure

10 bar

Body:

- AISI 316 or aluminium
- **Connections:**
- BSP or NPT 1/4"

Options:



SEAL WATER FLOW METERS

SLM



TO SEA

Height ~272 mm

max

aptro La

FROM SEA

Key Features:

- Solid, compact construction
- Clog resistant flow control valve
- Built-in tube cleaner
- All models are alarm-ready
- Compatibility with all seal types
- Corrosion resistant materials
- Applications:
- Single and double mechanical seals
- Gland packings
- Flushing and purge water applications
- **Measuring Range:**

• Water +20°C

- min 0.025-0.4 L/min, max 1-13 L/min
- Other water ranges also available

Body:

POM or PVDF

Connections:

- 10 mm hose barb connectors, standard
- Other type of connectors also available

Options:

Please contact us for available options.

SLMx-2



- Solid, compact construction
- Clog resistant flow regulating valve
- Built-in tube cleaner
- · All models are alarm-ready
- Corrosion resistant materials

Applications:

Double mechanical seals

Measuring Range:

- Water +20°C
- min 0.05 1.0 L/min, max 0.5 8.0 L/min
- Other water ranges also available

Body:

POM or PVDF

Connections:

- 10 mm hose barb connectors, standard
- Other type of connectors also available

Options:





OVAL GEAR FLOW METERS AND DISPLAYS

Key Features:

Applications:

Process control

Measuring Range: • Oil SR-1...6:

SR-10...120:

Pulse output

Sturdy construction

Flow adjusting valve

(20 bar on request)

Service valve (SR-1...6)

Lubrication oil monitoring

Maximum pressure 10 bar

Maximum temperature 80°C

Industrial oil flow monitoring

min 0.1-1 L/min, max 0.6-6 L/min

Large viscosity range 30-1000 cSt

Independent of oil viscosity changes

SR SINGLE

SR-2.5



Height 73 mm

SR-10



Height 160 mm

min 1-10 L/min, max 10-120 L/min • Other ranges also available

Body:

Aluminium

Connections:

• SR-1...6: BSP/NPT 1/2"

SR-10...120: BSP/NPT 1" or 1 1/2" depending on range

Options:

Please contact us for available options.

2950

Height 109 mm

11

max

Key Features: Large viscosity range 30-1000 cSt

- Independent of oil viscosity changes
- Pulse output
- No flow adjusting valve
- Maximum pressure 10 bar
- (20 bar on request)
- Maximum temperature 80°C

Applications:

- Lubrication oil monitoring
- Industrial oil flow monitoring
- Process control

Measuring Range:

- Oil min 0.1–1 L/min,
- max 10-100 L/min
- Other ranges also available

Body:

Aluminium

Connections:

- BSP or NPT 1/4", 3/4", 1", 1 1/2" depending on range

Options:

Please contact us for available options.

SRx-x MULTI-CHANNEL MODEL

Key Features:

- 4, 6 or 8 channels
- Large viscosity range 30-1000 cSt
- Independent of oil viscosity changes
- Pulse outputs
- Sturdy construction
- Flow adjusting valves
- Service valves
- Maximum pressure 10 bar
- (20 bar on request) Maximum temperature 80°C

Applications:

- Lubrication oil monitoring
- Industrial oil flow monitoring Process control

Measuring Range:

- Oil min 0.1 1 L/min, max 0.6-6 L/min
- Other ranges also available

Body:

Aluminium

Connections:

• BSP or NPT 1/2" outlets



Options:

Please contact us for available options.

6210

Height

129 mm

Key Features:

- Large viscosity range 30-1000 cSt
- Independent of viscosity changes
- Chemical resistant materials
- Pulse output
- No flow adjusting valve
- Maximum pressure 10 bar
- Maximum temperature 80°C

- Polymer injection
- Flocculent flow control
- Viscous chemical dosage

Measuring Range:

- Min 0.1-1 L/min, max 3-30 L/min
- Other ranges also available

Body:

PVC or PVDF

Connections:

• BSP 1/4" or 3/4" depending on range (Adapters available for NPT)

Options:

Please contact us for available options.

0

Ø108 mm

max

- - **Applications:**

OVAL GEAR FLOW METERS AND DISPLAYS

SRO

Key Features:

- Large viscosity range 30-1000 cSt
- Independent of viscosity and temperature changes
- Pulse output
- Accuracy ±0.5% of reading
- Maximum pressure 10 bar
- Maximum temperature 80°C

Applications:

- Lubrication oil flow monitoring
- Industrial flow monitoring
- Process control

Measuring Range:

Oil

- min 10-120 L/min max 20-200 L/min
- **Body:**
- Aluminium

• BSP or NPT 11/2"

Options:

OVAL D MEASURING STATION

Alternative sensors

SRP

Key Features:

- Maximum pressure of up to 600 bar depending on model
- Independent of viscosity and
- temperature changes
- Pulse output
- · For low and high viscosity liquids
- Accuracy ±0.5% of reading, viscosity ≥50 cSt
- Maximum temperature 75°C with Namur sensor, 100°C with PNP sensor

Applications:

- Hydraulic applications
- · Industrial flow monitoring
- Process control and batching

Measuring Range:

 Flow ranges from 0.25 L/min to 150 L/min depending on viscosity

Body:

Stainless steel AISI 316

Connections:

• BSP or NPT 1/4", 1/2", 1" depending on range

Options:

- Alternative sensors
- Stainless steel or brass gears

OVAL MIN-E LOCAL DISPLAY

Key Features:

- Clear scalable display
- Instant/cumulative flow measurement
- Multiple flow units
- Multiple flow alarm levels
- Visible alarm indication
- Multi-level configuration
- Pulse input
- Alarm relay
- mA outputs

Applications:

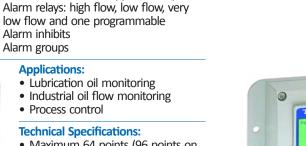
- Lubrication oil flow monitoring
- Industrial flow monitoring
- Process control

- Kytola coil, NAMUR or NPN sensor inputs
- Modbus RTU (RS485) communication

Anodized aluminium, IP65

Supply Voltage:

• 24 VDC



(1)

• Maximum 64 points (96 points on special request)

Communication with upper level systems

low flow and one programmable

Lubrication oil monitoring

Modbus RTU (RS485) communication

Technical Specifications:

Kytola coil or NAMUR sensor inputs

Height 250 mm

Housing: Stainless steel, IP65

Supply Voltage:

• 24 VDC/0.6 A or 110-240 VAC / 50-60 Hz

Ø170 mm





100 THEFT

Height

100 mm

Technical Specifications:

- Single or multi-channel models

Housing:

····· 12 ····▶

max

Ø135 mm

Connections:



Key Features:

Clear display

Alarm inhibits Alarm groups

Applications:

Process control

Stainless steel housing



OIL LUBRICATION FLOW MONITORING SYSTEMS

INSTALLATION PANELS



Key Features: • Sturdy stainless steel

- construction
- Withstands the harsh conditions in process industry
- With or without plexiglass door · Mounting on hood wall or floor mounting stand
- OVAL D station and SR meters assembled
- Connections, shut-off valves, flushing etc., according to customer's requirements

Applications:

- Pulp and paper machines
- **Tissue machines**
- Steel mills

OVAL D MEASURING STATION

Kev Features:

- Stainless steel housing
- Communication with upper level systems
- Alarm relays: high flow, low flow, very low flow and one programmable
- Alarm inhibits and groups

Applications:

- Lubrication oil monitoring
- Industrial oil flow monitoring
- Process control

Technical Specifications:

- Maximum 64 points (96 points on special request)
- Modbus RTU (RS485) communication
- Kytola coil or NAMUR sensor inputs

SR OVAL GEAR METERS

Key Features:

- Single or multi-channel (4, 6, 8) model
- Large viscosity range 30—1000 cSt
- Independent of oil viscosity changes
- Pulse outputs
- Sturdy construction
- Flow adjusting valves
- Maximum pressure 10 bar (20 bar on request)
- Maximum temperature 80°C

Applications:

- Lubrication oil monitoring
- Industrial oil flow monitoring
- Process control

Measuring Range:

• Min 0.1-1 L/min, max 10-120 L/min

OVAL MIN-E LOCAL DISPLAY



Height

100 mm



Kev Features: Clear scalable display

- Instant/cumulative flow measurement
- Multiple flow units
- Multiple flow alarm levels
- Visible alarm indication
- Multi-level configuration
- Pulse input
- Alarm relay
- mA outputs

Applications:

- Lubrication oil flow monitoring
- Industrial flow monitoring
- Process control

Technical Specifications:

- Single or multi-channel models
- Kytola coil, NAMUR or NPN sensor inputs
- Modbus RTU (RS485) communication

KVM CONTROL ROOM SOFTWARE



- Easy on-site start-up and commissioning
- User friendly operation
- Reliable operation and runtime control

Applications:

- Lubrication oil monitoring
- Industrial oil flow monitoring
- Process control

Height ~255 mm

13

Key Features:

- Optimized for upgrading the existing Model V variable area flow meter to oval gear meters
- Single or multi-channel (max 7) models
- Independent of oil viscosity changes
- Oval Min-E Local Display can be mounted on the meter block or as a separate unit

Applications:

- Lubrication oil flow monitoring
- Industrial flow monitoring
- Process control









250 mm

SRV UPGRADE BLOCK





OIL LUBRICATION FLOW MONITORING SYSTEMS

FLOW METER VEXA

Kev Features:

- Sturdy, industrial flow meter with protected flow tubes
- Flow adjustment valves on outlet
- Inductive low flow alarm (option)
- Maximum pressure 30 bar
- Maximum temperature 80°C

Applications:

 Lubrication oil flow monitoring in pulp & paper, steel and other industries

Measuring Range:

- Oil 220 cSt 100% flow min 0.13 L/min, max 7.2 L/min
- Oil 125 cSt 100% flow min 0.23 L/min, max 12.5 L/min

Flow Tubes:

Grilamid (PA-12)

Connections:

- Single tube: BSP or NPT 1/2"
- Multi-tube: BSP/NPT 3/4" common inlet. BSP/NPT 1/2" separate outlets

Options:

Please contact us for available options.

FLOW METER TL



Key Features:

- Sturdy, industrial flow meter
- Protected flow tube
- Inductive low and/or high flow alarm (option)
- Maximum pressure 20 bar
- Maximum temperature 80°C (120°C)

Applications:

• Lubrication oil flow monitoring in pulp & paper, steel and other industries

Measuring Range:

- Oil 220 cSt
- 100% flow min 26.8 L/min, max 130 L/min Oil 125 cSt
- 100% flow min 33.5 L/min, max 190 L/min

Flow Tube:

Grilamid (PA-12) or PES

Connections:

BSP or NPT 2" (DN 50 or ANSI 2" flanges)

Options:

Please contact us for available options.





Height 180 mm max

One change-over switch, 230 VAC, 5 A

Inputs:

NAMUR norm (DIN 19234)

FLOW METER K

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Flow adjusting valve on outlet
- Inductive low and/or high flow alarm (option)
- Maximum pressure 30 bar Maximum temperature 80°C (120°C)

Applications:

Lubrication oil flow monitoring in pulp & paper, steel and other industries

Measuring Range:

- Oil 220 cSt 100% flow min 9 L/min, max 27.5 L/min Oil 125 cSt
- 100% flow min 14 L/min, max 40 L/min

Flow Tube:

Grilamid (PA-12) or PES

Connections:

• BSP or NPT 1"

Options:

Please contact us for available options.

ALARM AMPLIFIER NK

310 mm

Key Features:

- Connections for 1—30 NAMUR sensors dependent upon model
- Function indicator LED's in front panel
- Potential free change-over switch
- Common group alarm, if one or more sensor alarms

Applications:

- Indication of low flow alarm in oil lubrication systems
- Indication of low/high flow alarm, in sealing and cooling water systems
- Gas flow alarm
- Typically used with models V, K and TL

Supply:

• 24 VDC, 110 VAC or 220 VAC, dependent upon model

Output:

Inductive proximity sensors according to





14



OIL ANALYZERS

OILAN WATER IN OIL ANALYZER



Key Features:

- On-line measurement
- Measures the absolute water content in oil (ppm)
- For mineral oils as well as some synthetic oils
- Serial communication (Modbus)
- 4—20 mA output
- Alarm output
- Monitoring and calibration with Kytola software

Applications:

- Paper machine oil lubrication systems
- Ship propulsion systems
- Oil rig propulsion systems
- Steel mills
- Mining

Technical Specifications:

- Measuring range 0—5000 ppm (0–20000 ppm on request)
- Accuracy ±30 ppm within the calibrated measuring range and under calibration conditions
- Oil viscosity 10—680 cSt
- Ambient temperature +5°C...+60°C
- Oil sample temperature +5°C...+60°C
- Oil sample pressure 1–10 bar

Housing:

Aluminium

Connection:

• BSP or NPS 1/4" female adapters

OILCOL OIL COLOR ANALYZER



- Online oil color analyzer
- ASTM D1500 color scale
- Online measurement with a response time of 4 s
- Sturdy construction
- Serial communication (Modbus)
- 4 20 mA output
- Monitoring with Kytola software

Applications:

- Wide variety of liquid petroleum products:
- Lubricating oils
- Heating oils
- Diesel fuel oils
- Mineral insulating oils
- Hydraulic oils

Technical Specifications:

- Measuring range ASTM D1500 scale from 0.5 to 8.0
- Accuracy ±0.3 (as the ASTM scale step is 0.5)
- Oil viscosity 0-500 cSt
- Oil and ambient temperature -20°C...+60°C (-20°C...+70°C with air cooling option)
- Maximum pressure 20 bar

Housing:

Aluminium

Connection:

10 mm or 3/8" compression fitting



Height 90 mm

DIFFERENTIAL PRESSURE METERS

DPA



Height 137 mm

Key Features:

- Clear and easy to read
- Red metering liquid provides good contrast
- Robust construction
- Metering liquid does not blow out during momentary overloads
- Due to the construction metering liquid does not evaporate during overloads

Applications:

- Air conditioning strainers
- Blowers
- Dust filters
- Pressurized enclosures
- Draught measurement in furnaces
- Laboratories

Measuring Range:

• Min 0–100 Pa, max 0–500 Pa

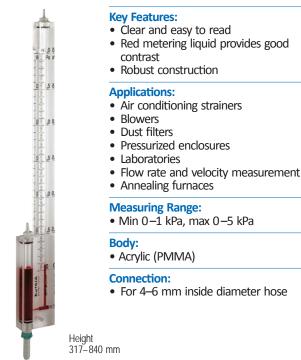
Body:

Acrylic (PMMA)

Connection:

• For 4–6 mm inside diameter hose

DPP



CHECK VALVES

2680A / 2680B





Height 46-70 mm

2680B

Key Features:

- Robust stainless steel construction
- Protects measurement equipment
- Closes if flow stops or reverses
- Can be mounted in any position
- Easily removed
- Withstands corrosive media

Applications:

- Liquid feed lines
- Gas feed lines
- Pressurized sealing water systems

Opening Pressure:

• 0.15—0.25 bar

Body: • AISI 316

Connection:

 BSP 1/4"—BSP 1" 2680A: male inlet, female outlet 2680B: female inlet and outlet



Key Features:

- Robust stainless steel construction
- Protects measurement equipment
- Closes if flow stops or reverses
- Can be mounted in any position
- Easily removed
- Withstands corrosive media

Applications:

- Liquid feed lines
- Gas feed lines
- Pressurized sealing liquid water systems

Opening Pressure:

0.25 bar

- Body:
- AISI 316

Connection:

 Inlet for 10 mm hose, outlet BSP 1/4"–1/2" (Inlet for 3/8" hose, outlet NPT 1/4"–1/2")



2680-

55–75mm



Height 59-81 mm

Start-up Assistance

Kytola offers a comprehensive commissioning and start-up package with in-depth training to operators.

Kytola assistance ensures a smooth start up and efficient use of the Oval Flow lubrication monitoring system from the very first moment.

Maintenance and Service Agreement

Kytola is dedicated to contribute to the maximum runnability of its customer's machinery.

By signing a Maintenance and Service agreement with Kytola, one ensures best possible operation of their Kytola products and systems.





www.kytola.com

Sales office, Germany Kytölä Mess- und Regeltechnik GmbH Frankfurter landstr. 52 D-63452 Hanau Germany Tel. +49 6181 983 575 Fax +49 6181 983 578 E-mail info@kytola.de www.kytola.de Sales office, Canada Kytola Instruments Ltd 1321 Blanshard Street Suite 301 Victoria, BC V8W 0B6 Canada Tel. +1 514 630 7887 Fax +1 514 448 5151 E-mail flow@kytola.com www.kytola.ca

Global Headquarters, Finland

Kytola Instruments Oy Olli Kytölän tie 1 FI-40950 Muurame Finland Tel. +358 20 779 0690 Fax +358 14 631 419 E-mail info@kytola.com

Sales office, US

Kytola Instruments Inc 900 Old Roswell Lakes Parkway Suite 120 Roswell, GA 30076 USA Tel. +1 678 701 3569 Fax +1 514 448 5151 E-mail flow@kytola.com www.kytola.ca

Sales office, Sweden

Kytölä Instrument AB Svalgången 1 S-72481 Västerås Sweden Tel. +46 21 304 340 Fax +46 21 304 344 E-mail info@kytola.se www.kytola.se

Sales office, China

Kytola (Beijing) Trading Co.,Ltd Room 1172 Poly Plaza Office Building No. 14 South road of Dong Zhi Men Wai 100027, Dongcheng District, Beijing P.R. China Tel. +86 139 1102 9843 E-mail info@kytola.com www.kytola.com/cn