

PRODUCT CATALOG

Variable area flow meters Constant flow regulators Seal water flow meters Oval gear flow meters Measuring stations and displays Oil lubrication flow monitoring systems Flow alarm monitoring systems Oil quality 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 tailor-made 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 headquarters, 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.

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Quality products from a trusted manufacturer





PLASTIC TUBE

Α

Kapballo

2

2

0

Height

130 mm

H,O

Key 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
- Sealing water measurements
- Gas flow measurements

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:

• G 3/8" (Adapters available for NPT)



Kapbolo

C-4EA

Height

BA

165 mm

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 0.5–5 L/min, max 5–30 L/min • Air +20°C / 1.013 bar (abs)
- min 20–200 NL/min, max 100–1 000 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Body:

• Acrylic (PMMA)

Connections:

• G 3/4" (Adapters available for NPT)

D



• High quality

- 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 200–1 100 NL/min,
- max 500–2 500 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Body:

Acrylic (PMMA)

Connections:

• G 1" (Adapters available for NPT)



Height ~94 mm

Key Features:

- High quality acrylic flow meter
- Clear, easy to read scale
- 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

Body:

Acrylic (PMMA)

Connections:

• Rapid fittings for outside diameter 6 mm and inner diameter 4 mm hose

4

210 mm

PLASTIC TUBE

E



Key Features:

- High quality acrylic flow meter
- Clear, easy to read scale
- 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

Height 128 mm

Acrylic (PMMA)

Body:

Connections:

• G 1/4" (Adapters available for NPT)

EA



Key Features:

- High quality acrylic flow meter
- Clear, easy to read scale
- Adjustable alarm
- Flow adjustment valve
- Various alarm sensor choices
- Maximum pressure 10 bar
- Maximum temperature 75°C

Applications:

- Heat treatment ovens
- Automatic welding lines

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:

• G 1/4" (Adapters available for NPT)

L



- Sturdy, industrial flow meter
- Clear, easy to read scale
- Flow adjustment valve
- 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 0.5–3.5 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) or Grilamid (PA-12)

Connections: • G or NPT 1/4"





KPM

Options: Please contact us for available options

Maximum pressure 20 bar

• Excellent corrosion and heat resistance

• Maximum temperature 100° C

Solid, compact constructionClog resistant flow adjustment valve

• All models are alarm-ready

Applications:

Key Features:

- Industrial water purging
- Contaminated water

• Built-in tube cleaner

Measuring Range:

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

POM or PVDF

- **Connections:**
- G/NPT 1/4" or 3/8" or 10 mm compression fitting

5>



PLASTIC TUBE

HV



Key Features:

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

Flow Tube:

• Grilamid (PA-12) or PES

 Sturdy, industrial flow meter Clear, easy to read scale Good corrosion resistance

 Process and chemical industries • Water treatment plants Agricultural applications

Flow measurement in PVC piping

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

• Grilamid (PA-12) or PES

Threaded or socket type connections • Inductive low and/or high flow alarm (option) Maximum pressure 10 bar @ 20°C • Maximum temperature 50°C @ 2 bar

Connections:

Key Features:

Applications:

Flow Tube:

• Reverse osmosis **Measuring Range:** Water +20°C

• G/NPT 1/2" or 20 mm socket type connection

HK



Height 282 mm max

Key Features:

- Sturdy, industrial flow meter
- Clear, easy to read scale
- Good corrosion resistance
- Threaded or socket type connections
- Inductive low and/or high flow alarm (option)
- Maximum pressure 10 bar @ 20°C
- Maximum temperature 50°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 0.3-2.5 Nm³/min

Flow Tube:

Grilamid (PA-12) or PES

Connections:

• G/NPT 3/4" or 25 mm socket type connection

ΗТ

210 mm

max



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

max



Height 395 mm

PLASTIC TUBE

KL



Kev Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- No flow adjustment valve
- 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 200-1 200 NL/min, max 400-3 000 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

Grilamid (PA-12) or PES

Connections:

• G or NPT 1"

Κ



Height 310 mm

KLFH

Height

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- Flow adjustment 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 200-1 200 NL/min,
- max 400-2 800 NL/min • Other water and air ranges, and scales for
- alternative liquids and gases also available

Flow Tube:

- Grilamid (PA-12) or PES
- **Connections:**
- G or NPT 1"

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- 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 200-1 200 NL/min, max 400-3 000 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

- DN25 or DN40 flanges
 ANSI 1" or 1½" flanges
- 406 mm

Height 310 mm

KD

flow tube Clear, easy to read scale

Key Features:

- Large selection of materials
- Flow adjustment valve on inlet
- Inductive low and/or high flow alarm (option)
- Maximum pressure 30 bar
- Maximum temperature 80°C (120°C)

Sturdy, industrial flow meter with protected

Applications:

min 200-1 200 NL/min, max 400-3 000 NL/min

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

• G or NPT 1"



Measuring and monitoring gas flows

• Air +20°C / 1.013 bar (abs)

Measuring Range:



PLASTIC TUBE

TL



Height 373 mm

Key Features:

- Sturdy, industrial flow meter
- Clear, easy to read scale
- 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: • G or NPT 2"

TLFH



Height 317 mm

Key Features:

- Sturdy, industrial flow meter
- Clear, easy to read scale
- 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

2

PLASTIC TUBE

VL



Height 202 mm

VD

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- No flow adjustment 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

Connections:

• G or NPT 1/2"



Height

218 mm

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- Flow adjustment valve on inlet
- 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 100–1100 NL/min • Other water and air ranges, and scales for
- alternative liquids and gases also available

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

• G or NPT 1/2"

VE



Height ~246 mm max

VLFH



- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- Flow adjustment valve on outlet
- 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 15–70 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:**
- G or NPT 1/2"

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- 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:

- Height 320 mm
- DN15 or DN25 flanges
 ANSI 1/2" or 1" flanges
- **Options:** Please contact us for available options

FH



K SMART WITH MA OUTPUT

KLxS



Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- No flow adjustment valve
- 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 200-1 200 NL/min,
- max 400-3 000 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

• G or NPT 1"



KxS

Height 310 mm

Kev Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- Flow adjustment 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 200-1 200 NL/min, max 400-2 800 NL/min
 - Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

• G or NPT 1"

KDxS



Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- Flow adjustment valve on inlet
- (option)

Measuring Range:

• Air +20°C / 1.013 bar (abs) min 200-1 200 NL/min, max 400-3 000 NL/min

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

• G or NPT 1"



Options: Please contact us for available options

Height

310 mm

- Inductive low and/or high flow alarm
- Maximum pressure 30 bar
- Maximum temperature 80°C (120°C)

Applications:

• Measuring and monitoring gas flows



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Height 310 mm low flow alarm

Red:

mA transmitter VA Smart Local alarm LEDs

Yellow:

Green (blinks):

within set limits

high flow alarm

.

V SMART WITH MA OUTPUT

VLxS



Height 202 mm

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- No flow adjustment 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 2–9 L/min, max 5–30 L/min
 - Air +20°C / 1.013 bar (abs)
- min 80-300 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:

• G or NPT 1/2"

VExS



Kev Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- Flow adjustment valve on outlet
- 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 2–9 L/min, max 5–30 L/min Air +20°C / 1.013 bar (abs)
- min 60-260 NL/min, max 150-700 NL/min
- Other water and air ranges, and scales for alternative liquids and gases also available
- Grilamid (PA-12) or PES

VDxS



Heiaht 218 mm

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Large selection of materials
- Flow adjustment valve on inlet
- 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 2–9 L/min, max 7.5 – 32.5 L/min Air +20°C / 1.013 bar (abs)
- min 80-280 NL/min, max 100-1100 NL/min Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

• Grilamid (PA-12) or PES

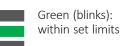
Connections:

G or NPT 1/2"

mA transmitter VA Smart

Local alarm LEDs

max





high flow alarm

Red: low flow alarm





- Height ~246 mm Flow Tube: **Connections:**
 - G or NPT 1/2"



MULTI-TUBE

ExK



128 mm

Key Features:

- High quality acrylic flow meter
- Clear, easy to read scale
- Available in single tube and multi-tube versions (max 12 tubes)
- Flow adjustment valve
- 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:

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

VEx



Height ~263 mm max

Key Features:

- Sturdy, industrial flow meter with protected flow tubes
- Available in single tube and multi-tube versions
- (max 7 tubes)
- Clear, easy to read scale
- 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
- Oil 220 cSt: 100% flow min 0.14 L/min, max 7 L/min
- Oil 150 cSt: 100% flow min 0.2 L/min, max 10 L/min
- Other water and air ranges, and scales for alternative liquids and gases also available

Flow Tube:

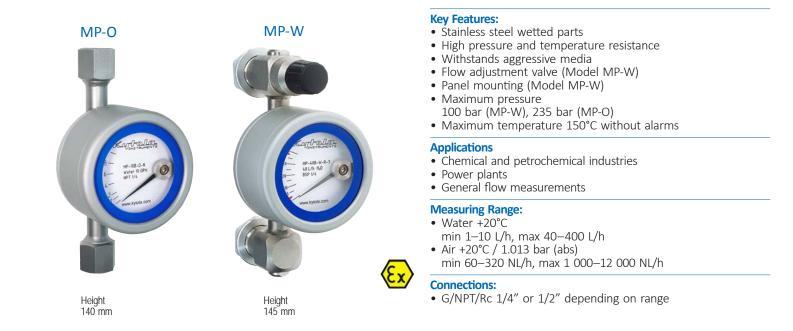
Grilamid (PA-12) or PES

Connections:

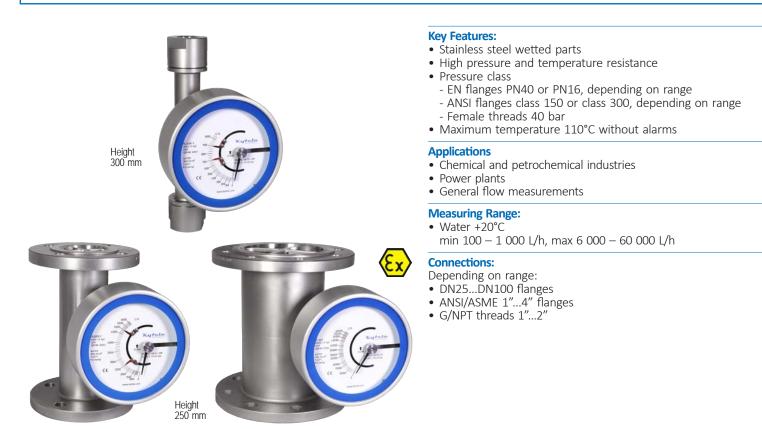
• G/NPT 3/4" common inlet, G/NPT 1/2" separate outlets

METAL TUBE

MP



ML



Options: Please contact us for available options



CONSTANT FLOW REGULATORS

2851



Height 132 mm

3630

Key Features:

- Provides constant flow of liquids or gases regardless of pressure variations
- High performance, reliable operation
- Clear, easy to read scale
- 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 15-80 mL/min, max 0.5-3.0 L/min • Air +20°C / 1.013 bar (abs)
- min 0.5-2.5 NL/min, max 15-110 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:

Key Features:

• G or NPT 1/4"

2914



Height ~300 mm

3631



Height 132 mm



Kev Features:

- Provides constant flow of liquids regardless of pressure variations
- Needle valve for flow adjustment
- High performance, reliable operation • Clear, easy to read scale
- 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:

• G or NPT 1/2"

- **Key Features:**
- Provides constant flow of liquids or gases regardless of pressure variations Adjustable alarm
- High performance, reliable operation
- Clear, easy to read scale
- 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:

• G or NPT 1/4"

Options: Please contact us for available options

..... 14

- Supplied with Model L flow meter
- Water or air purging

construction

• Clear, easy to read scale

• Aluminium or stainless steel

• Gas purging in Δp measurements Hydrostatic density measurements

Provides constant flow of liquids or

gases regardless of pressure variations

High performance, reliable operation

Flow Range:

Applications:

- 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

• 10 bar

Body:

• AISI 316 or aluminium

Connections:

• G or NPT 1/4"

SEAL WATER FLOW METERS

SLM



Key Features:

- Solid, compact construction
- Clog resistant flow adjustment 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
- Quench seals
- 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

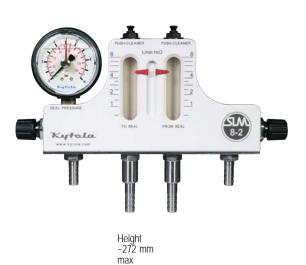
Body:

• POM or PVDF

Connections:

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

SLMx-2





- Solid, compact construction
- Clog resistant flow adjustment 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

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OVAL GEAR FLOW METERS FOR OIL

SR1 SINGLE

WITH FLOW ADJUSTMENT VALVE

SR1-1

SR1-15



73 mm

Kev Features:

• Large viscosity range 30–1 000 cSt

- Independent of oil viscosity changes
 - Pulse output
- Sturdy construction
- Flow adjustment valve
- Service valve (SR1-1...SR1-6)
- 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

SR1-1...SR1-6:

min 0.1-1.5 L/min, max 0.5-6 L/min SR1-15...SR1-120: min 1-15 L/min, max 10-120 L/min

Body: Aluminium

Connections:

• SR1-1...SR1-6: G or NPT 1/2" SR1-15...SR1-120: G/NPT 1" or 1 1/2" depending on range

2950

Height 160 mm

WITHOUT FLOW ADJUSTMENT VALVE

Key Features:

- Large viscosity range 30–1 000 cSt
- Independent of oil viscosity changes
- Pulse output
- No flow adjustment valve
- Maximum pressure 10 bar

Applications:

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

Measuring Range:

• Oil min 0.1-1.5 L/min, max 5-70 L/min

Height 109 mm

ala

max

Body: • Aluminium **Connections:**

• G or NPT 1/4", 3/4", 1" depending on range

SRx MULTI-CHANNEL

WITH FLOW ADJUSTMENT VALVE

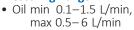
Kev Features:

- 4, 6 or 8 channels
- Large viscosity range 30-1 000 cSt
- Independent of oil viscosity changes
- Pulse outputs
- Sturdy construction
- Flow adjustment 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:



Body:

Aluminium

Connections:

• G or NPT 1/2" outlets

SRO

Height 125 mm

WITHOUT FLOW ADJUSTMENT VALVE

Key Features:

- Large viscosity range 30–1 000 cSt
- Independent of viscosity and
- temperature changes Pulse output
- Accuracy $\pm 0.5\%$ of reading Maximum pressure 10 bar
- (20 bar on request) 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

Connections:

• G or NPT 11/2"

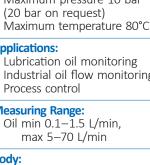
Options:

.

Alternative sensors

Ø135 mm





OVAL GEAR FLOW METERS FOR CHEMICALS

6210P



Ø108 mm max



Key Features:

- Large viscosity range 30–1 000 cSt
- Independent of viscosity changes
- Chemical resistant materials
- Pulse output
- No flow adjustment valve
- Maximum pressure 10 bar
- Maximum temperature 40°C

Applications:

- Polymer injection
- Flocculent flow control
- Viscous chemical dosage

Measuring Range: • Min 0.1–1.5 L/min, max 2–30 L/min

Body:

• Polypropylene

Connections:

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



MEASURING STATIONS AND DISPLAYS

KLD SMART TOUCHSCREEN DISPLAY



Height 120 mm



Height 140 mm

SINGLE OR 8-CHANNEL MODELS

Key Features:

- Touchscreen display
- Flow measurement Totalizer counter and batching
- Multiple flow units
- Multiple flow alarm levels • Visible alarm indication
- Pulse or mA input
- mA output
- Alarm relay

Applications:

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

Technical Specifications:

- Single or 8-channel models
- Kytola coil, NAMUR, NPN or PNP sensor inputs
- Modbus RTU (RS-485), Ethernet (Modbus TCP)

Enclosure:

• Steel, IP65

Supply Voltage:

• 24 VDC/0.4 A

OVAL D2 MEASURING STATION



Height 250 mm

Key Features:

- Painted or stainless steel enclosure
- Clear display
- Communication with upper level systems
- Alarm relays: high flow, low flow, very low flow and one programmable
- · Alarm inhibits
- Alarm groups

Applications:

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

Technical Specifications:

- Maximum 64 measuring channels
- Modbus RTU (RS-485)
- USB port for local configuration
- Kytola coil, NAMUR sensor inputs

Enclosure:

• Painted or stainless steel, IP65

Supply Voltage:

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

FOR 1 – 64 CHANNELS

OIL LUBRICATION FLOW MONITORING SYSTEMS

INSTALLATION PANELS



Kev 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 D2 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 D2 MEASURING STATION

Height 250 mm

Key Features:

- Painted or stainless steel enclosure
- Communication with upper level systems
- Alarm relays: high flow, low flow, very low flow and one programmable
- Alarm inhibits and groups

Applications:

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

Technical Specifications:

- Up to 64 measuring channels
- Modbus RTU (RS-485) communication
- USB port for local configuration
- Kytola coil or NAMUR sensor inputs

KVM SUITE CONTROL ROOM SOFTWARE



Key Features:

- 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

SR OVAL GEAR METERS

Key Features:

- Single or multi-channel (4, 6, 8) model
- Large viscosity range 30-1 000 cSt
- Independent of oil viscosity changes
- Pulse outputs
- Sturdy construction
- Flow adjustment valves
- Service valves on selected models • Maximum pressure 10 bar
- (20 bar on request) Maximum temperature 80°C

Applications:

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

- **Measuring Range:**
- Min 0.1–1.5 L/min, max 10–120 L/min

KLD SMART TOUCHSCREEN DISPLAY

Key Features:

- Touchscreen display
- Flow measurement
- Totalizer counter and batching Multiple flow units
- Multiple flow alarm levels
- Visible alarm indication
- Pulse or mA input •
- mA output
- Alarm relay

Applications:

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

- **Technical Specifications:** • Single or 8-channel models
- Kytola coil, NAMUR, NPN or PNP sensor inputs
- Modbus RTU (RS-485). Ethernet (Modbus TCP)







Height 120 mm











Height 140 mm

H







OIL LUBRICATION FLOW MONITORING SYSTEMS

FLOW METERS

FLOW METER VEXA

Key Features:

- Sturdy, industrial flow meter with protected flow tubes
- Clear, easy to read scale
- 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 0.14 L/min, max 7 L/min • Oil 150 cSt
 - 100% flow min 0.2 L/min, max 10 L/min

Flow Tubes:

Grilamid (PA-12)

Connections:

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



FLOW METER KA

Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- Flow adjustment 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 24 L/min • Oil 150 cSt
- 100% flow min 12 L/min, max 33 L/min

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

• G or NPT 1"

Height 310 mm

FLOW METER TLA

Height

~255 mm



Key Features:

- Sturdy, industrial flow meter with protected flow tube
- Clear, easy to read scale
- 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 27 L/min, max 130 L/min • Oil 150 cSt
- 100% flow min 32 L/min, max 170 L/min

Flow Tube:

• Grilamid (PA-12) or PES

Connections:

• G or NPT 2" (DN 50 or ANSI 2" flanges)

Height 373 mm

20

FLOW ALARM MONITORING SYSTEMS

ALARM AMPLIFIER NK – GROUP ALARM

Key Features:

- Connections for 1–30 NAMUR sensors, dependent upon model
- Function indicator LEDs 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 or high flow alarm in sealing and cooling water systems • Gas flow alarm
- Typically used with models V, K and TL

Supply:

• 24 VDC, 115 VAC or 230 VAC, dependent upon model

Output:

• One change-over switch, 230 VAC, 5 A

Inputs:

 Inductive proximity sensors according to NAMUR norm (EN 60947)

SUBSTATION ALARM I/O - INDIVIDUAL ALARM

Key Features:

- Painted steel enclosure
- Low flow alarm indication from Kytola variable area flow meters
- Communication with upper level systems

Applications:

- Lubrication oil flow monitoring
- Industrial oil flow monitoring
- Process control •
- For use with models VExA, KA and TLA

Technical Specifications:

- Connections for 1 48 NAMUR sensors
- Modbus RTU protocol •
- Serial interface RS485 •

Enclosure:

• Painted steel, IP65

Supply:

• 24 VDC ±25%

Inputs:

 Inductive proximity sensors according to NAMUR norm (EN 60947)



Height

200 mm



. .

max



OIL QUALITY ANALYZERS

OILCOL OIL COLOR ANALYZER



Height 90 mm

Key Features:

- 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:

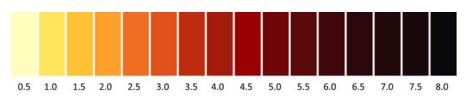
- Measuring range ASTM D1500 scale from 0.5 to 8.0
- Accuracy ±0.3 (as the ASTM scale step is 0.5)
- Oil viscosity 0-500 cSt
- Oil and ambient temperature -20°C...+60°C
- (-20°C...+70°C with air cooling option)
- Maximum pressure 20 bar

Enclosure:

Aluminium

Connection:

• 10 mm or 3/8" compression fitting



ASTM D1500 color scale

DIFFERENTIAL PRESSURE METERS

DPA



Height 137 mm

Key Features:

- Clear, easy to read scale
- 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



2680A / 2680B

2680A



Height 46-70 mm

2680B



55-75mm

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:

• G 1/4"-G 1" 2680A: male inlet, female outlet 2680B: female inlet and outlet

DPP



Key Features:

- Clear, easy to read scale
- Red metering liquid provides good contrast
- Robust construction

Applications:

- Air conditioning strainers
- Blowers
- Dust filters
- Pressurized enclosures
- Laboratories
- · Flow rate and velocity measurement
- Annealing furnaces

Measuring Range:

• Min 0–1 kPa, max 0–2 kPa

Body:

• Acrylic (PMMA)

Connection:

• For 4–6 mm inside diameter hose

317-447 mm



CV

Height 59-81 mm

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 systems

Opening Pressure:

- 0.25 bar
- **Body:**
- AISI 316

Connection:

• Inlet for 10 mm hose, outlet G 1/4"-1/2" (Inlet for 3/8" hose, outlet NPT 1/4"-1/2")



23

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.





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