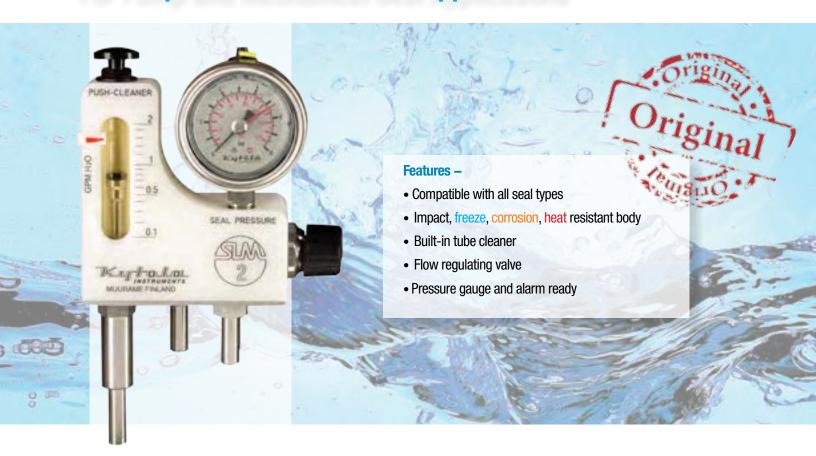


VARIABLE AREA FLOW METERS • OVAL GEARS • CONSTANT FLOW REGULATORS OIL MONITORING SYSTEMS • WATER IN OIL ANALYZERS • OIL COLOR ANALYZERS



**2014 PRODUCT CATALOG** 

#### **For Pump and Mechanical Seal Applications**



#### **Industries**

Seal and Pump Manufacturers Chemical and Petro Chemical Dairy Pulp and Paper Mills Chemical and Petro Chemical Pharmaceutical

Water, Waste Water
Mining
OEM manufacturers and more...

#### Why Use an SLM?

dequate cooling and lubrication are essential for any kind of seal. The SLM has been especially designed for applications on pumps and mechanical seals where uninterrupted seal water flow is required. Proper adjustment of flow and pressure will result in water and energy savings. Reliable and accurate flow measurement is based on a variable area metering principle using a free-floating float. The various sealing liquid monitor models quarantee compatibility with all seal types. Easy maintenance reduces down time. The built-in cleaner is designed not to interfere with operation and it effectively removes built-up contaminants. The long, clear metering scale guarantees visibility and easy inspection of flow level. Our original and innovative design offers durability and flexibility and our strong and compact design ensures maximum resistance to external impact. The SLM has been optimized to withstand contaminated water. The SLM can also be easily equipped with an alarm output by utilizing an inductive proximity sensor.



#### SLM-SEAL LIQUID MONITOR FLOW METER

SLM-	_				l		
02					Range Code		
					H <sub>2</sub> 0 Flow Rate	H <sub>2</sub> 0 Adjustable Alarm Range	
	04				0.05 - 0.4 LPM	0.25 - 0.1 LPM	
	1				0.05 - 1.0 LPM	0.1 - 0.45 LPM	
	3				0.1 - 3.0 LPM	0.3 - 1.2 LPM	The State of
	8				0.5 - 8.0 LPM	0.3 - 3.0 LPM	
	13				1.0 - 13.0 LPM	2.0 - 6.5 LPM	三
	6				0.5 - 6.0 USGPH	0.4 - 1.6 USGPH	
	15				1.0 - 15.0 USGPH	1.6 - 7.1 USGPH	May Manage
	50				2.0 - 50.0 USGPH	4.8 - 19.0 USGPH	
	2				0.1 - 2.0 USGPM	0.2 - 0.8 USGPM	
	35				0.25 - 3.5 USGPM	0.5 - 1.7 USGPM	
					Connection (See below	v for other choices)	SLMx-2
		0A16			3/8" tube compression	fitting	OLIVIA-Z
		QD11			1/4" NPT female connec	ction**	
		EF33			3/8" NPT male connecti	on	
					Special Option		
			Α		Alarm sensor 20 - 250 V	· · · · · · · · · · · · · · · · · · ·	
			F		Alarm sensor 10 - 55 VI		
			1		•	sensor, 10 mm range (ILK-M18-N-10)	
			G		Pressure gauge 145 psi	•	
			U		Pressure gauge 100 psi		
to US	M		Т		Pressure gauge 160 psi		
member to using the subject of the s	20.		E		Pressure gauge 360 psi	, 25 bar, SS304 cover	KPM Purge Meter
member 2 or ne SLMX-2 or Twin to accept	water		K		PVDF body		-55
Twin to see			M		PSU metering tube for 2	25 bar (standard)	
member 2 or ne SLMX-2 acces Twin to acces Twin to acces twin to acces the Process	19.		Υ		EPDM seals		-
Twin to cent excecsive process in the process			V		,	railable only on QD11 and OA16)	(A)
			Р		Pressurizing valve		Kutain (a)
			S		Floor mounting stand	re for other sheiges)	1 • 11•
No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa					Connections (See above	•	Almortha .
				N.	3/8" (*10 mm) ID hose I		
				N	3/8" (*10 mm) 0D tube	(optional)	- 11

	SLMx-2 – 1 Dual Seal	SLM Twin – 2 Separate Seals	KPM Purge Meter
Minimum Flow Rate Water	0.1 USGPM (0.05 LPM)	0.5 USGPH (0.05 LPM)	0.25 USGPH (0.025 LPM)
Maximum Flow Rate Water	2 UPGPM (8 LPM)	3.5 USGPM (13 LPM)	15 USGPH (3 LPM)
Maximum Temperature	212°F (100°C)	Notes	
Maximum Pressure	290 psi (20 bar)		
Body	POM (PVDF)		
Flow Adjustment Valve	Yes		
Built-in Tube Cleaner	Yes		
Inductive Alarm Sensor	Yes		



## APPLICATIONS GAS LIQUID









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	Model A	Model BA	Model C	Model D
Maximum Flow Rate Water	1.7 USGPM (6.5 LPM)	Not available	8.5 USGPM (30 LPM)	28 USGPH (100 LPM)
Maximum Flow Rate Air	8.5 SCFM (220 NLPM)	16 SCFH (7.5 NLPM)	36 SCFM (1000 NLPM)	100 SCFM (2500 NLPM)
Maximum Pressure	290 psi (20 bar)	145 psi (10 bar)	290 psi (20 bar)	290 psi (20 bar)
Needle Valve	No	Yes	No	No
Connections	3/8" BSP (NPT adaptors available)	Hose compression fitting o.d. 6 mm/i.d. 4 mm	3/4" BSP (NPT adaptors available)	1" BSP (NPT adaptors available)
Inductive Alarm Sensor	Yes	No	Yes	Yes
Maximum Temperature	167°F (75°C))	Notes		
Body	Acrylic (PMMA)	· Model BA for low air flow	rates <u>for analysers and</u>	air purging for enclosures

## APPLICATIONS GAS LIQUID WATER WASTEWATER







	Model HV	Model HK	Model HT
Maximum Flow Rate Water	8 USGPM (30 LPM)	20 USGPM (80 LPM)	100 USGPM (375 LPM)
Maximum Flow Rate Air	35 SCFM (900 NLPM)	85 SCFM (2200 NLPM)	550 SCFM (14000 NLPM)
Connections	1/2" NPT (BSP) or 0.79" (20 mm) socket connection	3/4" NPT (BSP) or 0.98" (25 mm) socket connection	1-1/4", 1-1/2" NPT (1-1/4" BSP) or 1.97" (50 mm) socket connection
Maximum Temperature	167°F @ 29 psi (50°C @ 2 bar) *(248°F @ 29 psi (120°C @ 2 bar)	* All models - choice of seals withle, vitons, EPDIW  * With PES corrosion resistant flowtube	
Maximum Pressure	145 psi @ 68°F (10 bar @ 20°C) *145 psi @ 176°F (10 bar @ 80°C)		
Flow Tube	Grilamid – PA12 or *PES		
Inductive Alarm Sensor	Yes		

#### **VARIABLE AREA FLOW METERS**

APPLICATIONS
GAS
LIQUID
CO<sub>2</sub>
AIR LANSING
DISSOLVED AIR SYSTEM





	Model E	Model ExK Multi-Block	ExH Multi-Block
Housing Plug Material	Nylon, AISI 316	Nylon	AISI 316
Maximum Flow Rate Water	40 USGPH (2.5 LPM)	Notes	
Maximum Flow Rate Air	200 SCFH (90 NLPM)	· All models - choice of seals Nitrile, Viton®, EPDM	
Maximum Temperature	167°F (75°C)	Models ExK and ExH can be used for purging applications where common inlet with several outlets per block removes the need for multiple flow meters  · Models ExK and ExH can be constructed with up to 12 blocks  · Models ExK and ExH maximum inductive alarm sensors is 2	
Maximum Pressure	290 psi (20 bar)		
Body	Acrylic (PMMA)		
Connections	1/4" BSP outlet - 1/2" BSP inlet (NPT adaptors available)		
Flow Adjustment Valve	Yes - inlet or outlet		
Inductive Alarm Sensor	Yes		

APPLICATIONS
GAS
LIQUID
CERTIFICATIONS
CRN







	Model LH	Model LR	Model LT	
Body	Acrylic (PMMA)	Grilamid	Trogamid-T	
Maximum Temperature	167°F (75°C)	176°F (80°C)	158°F (70°C)	
Maximum Pressure	290 psi (20 bar) up to max temp. 435 psi @ 86°F (30 bar @ 30°C)	290 psi (20 bar) up to max temp. 435 psi @ 95°F (30 bar @ 35°C)	290 psi (20 bar) up to max temp. 435 psi @ 86°F (30 bar @ 30°C)	
Maximum Flow Rate Water	45 USGPH (3 LPM)	Notes		
Maximum Flow Rate Air	240 SCFH (110 NLPM)	· All models – choice of seals Nitrile, Viton®, EPDM		
Flow Adjustment Valve	Yes	<ul> <li>All models – hand knob option fo</li> <li>Model LR has a freeze resistant t</li> </ul>		
Connections	NPT 1/4" (BSP)	· See page 7 for Model L flow me	•	
Valve	AISI 316			
Connectors	AISI 316			



## APPLICATIONS GAS LIQUID OIL







	Model KE	Model KD	Model KL
Maximum Flow Rate Water	30 USGPM (120 LPM)	Not available	27.5 USGPM (120 LPM)
Maximum Flow Rate Air	110 SCFM (2800 NLPM)	120 SCFH (3000 NLPM)	120 SCFH (3000 NLPM)
Flow Adjustment Valve	Yes - outlet	Yes - inlet	No
Maximum Temperature	175°F (80°C) ((248°F (120°C)) *PES	Notes  · All models - choice of seals Nitri	le, Viton®, EPDM
Maximum Pressure	440 psi (30 bar)	*With PES corrosion resistant flowtube	
Flow Tube	Grilamid – PA12 or *PES	· Model KE is offered with a quick	change nowtube
End Blocks	Aluminum, AISI 316 or Nylon		
Connections	1" NPT (BSP)		
Inductive Alarm Sensor	Yes		

# APPLICATIONS GAS LIQUID OIL CERTIFICATIONS CRN









	Model VD	Model VE	Model VExA Multi-tube	Model VL	
Maximum Flow Rate Water	8.5 USGPM (32.5 LPM)	8 USGPM (30 LPM)	8 USGPM (30 LPM)	8 USGPM (30 LPM)	
Maximum Flow Rate Air	45 SCFM (1100 NLPM)	27.5 SCFM (700 NLPM)	27.5 SCFM (700 NLPM)	35 SCFM (900 NLPM)	
Flow Adjustment Valve	Yes - inlet	Yes - outlet	Yes - outlet	No	
Flow Tube	Grilamid – PA12 or *PES	Notes			
End Blocks	Aluminum, AISI 316, Nylon	· All models - choice of seals Nitrile, Viton®, EPDM     · *With PES corrosion resistant flowtube     · Model VD is offered in a multi-tube			
Connections	1/2" NPT (BSP)				
Maximum Pressure	440 psi (30 bar)	· VD, VE, VExA are offered	with the quick change flow		
Maximum Temperature	175°F (80°C) 248°F (120°C)	Model VExA - water applications not recommended and voids warra     Model VExA can be manufactured with up to 7 flow tubes			
Inductive Alarm Sensor	Yes				

#### **VARIABLE AREA FLOW METERS**

## APPLICATIONS GAS LIQUID OIL VACUUM PUMPS







	Model TLA	Model TLFH	Model TTFH
Maximum Flow Rate Water	105 USGPM (400 LPM)		264 USGPM (1000 LPM)
Maximum Flow Rate Air	450 SCFM (12 NLPM)		Not available
Connections	2" NPT (BSP, ANSI)	DN50 flanges (2" ANSI)	DN 80 flanges
Maximum Temperature	175°F (80°C) ((248°F (120°C)) *PES	175°F (80°C) ((248°F (120°C)) *PES	167°F (75°C)
Maximum Pressure	290 psi (20 bar)	232 psi (16 bar)	232 psi (16 bar)
Flow Tube	Grilamid – PA12 or *PES		Acrylic (PMMA)
Body	Aluminum, AISI 316		AISI 316
Inductive Alarm Sensor	Yes	Notes	
		· All models - choice of seals Nitril · *With PES corrosion resistant flo	· · · · · · · · · · · · · · · · · · ·

#### **APPLICATIONS**

GAS LIQUID OIL CO<sub>2</sub> DISSOLVED AIR SYSTEM



#### **MULTI-TUBE FLOW METERS**



	Model ExK Multi-Block	Model ExH Multi-Block	Model VEx
Housing Plug Material	Nylon	AISI 316	Not Applicable
Body	Acrylic (PMMA)		Not Applicable
Connections	1/4" BSP (NPT adaptors available Outlet 1/2"BSP inlet (NPT Adapter		Inlets 3/4" NPT (BSP) Outlets 1/2" NPT (BSP)
Flow Rate Water	40 USGPH (2.5 LPM)		8 USGPM (30 LPM)
Flow Rate Air	200 SCFH (90 NLPM)		27.5 SCFM (700 NLPM)
Maximum Temperature	167°F (75°C)		175°F (80°C)
Maximum Pressure	290 psi (20 bar)		440 psi (30 bar)
Flow Adjustment Valve	Yes - inlet or outlet		
Inductive Alarm Sensor	Yes		



#### **APPLICATIONS**

GAS
LIQUID
SEAL WATER CONTROL
WATER PURGING
LEVEL MEASUREMENT
BUBBLER SYSTEM







	Model 2851	Model 2914	Model 3630
Maximum Flow Rate Water	0.8 USGPM (3.0 LPM)	5.3 USGPM (20 LPM)	24 USGPH (1.5 LPM)
Maximum Flow Rate Air	3.5 SCFM (110 NLPM)	Not available	2.3 SCFM (60 NLPM)
Body	AISI 316	AISI 316	AISI 316 or Aluminum
Connections	NPT 1/4" (BSP)	NPT 1/2" (BSP)	NPT 1/4" (BSP)
Maximum Temperature	167°F (75°C)	167°F (75°C)	167°F (75°C)
Maximum Static Pressure	290 psi (20 bar)	363 psi (25 bar)	290 psi (20 bar)
Maximum Differential Pressure		174 psi (12 bar) or D option for high pressure Delta-P for 290 psi (20 bar)	145 psi (10 bar) depending on model
Pressure Drop At Flow	29 psi (2 bar)	44 psi (3 bar)	29 psi (2 bar)
Flow Meter Required	Model L	Model VL	Model L

#### Notes

- · Models 2851 and 3630 choice of seals Nitrile, Viton®, EPDM
- · Model 2914, Nitrile seals
- · Model 2914, inductive alarm sensor
- · Model 3630 with aluminum body water applications are not recommended and voids warranty
- · All models EPDM diaphragm

#### Performance Model 2851

The 2851 diaphragm is designed for low liquid flow applications where supply or backpressure varies and for gas flow applications where backpressure varies.

#### Performance Model 2914

The 2914 diaphragm is designed for medium range liquid flow applications where supply or backpressure varies.

#### Performance Model 3630

The 3630 diaphragm is designed for low liquid flow applications where supply or backpressure varies and for gas flow applications where backpressure varies.

#### **METAL TUBE FLOW METER**

#### **APPLICATIONS** GAS LIQUID CHEMICAL **PETROCHEMICAL**







<u> </u>	Model MP
Maximum Flow Range Water	100 USGPH (400 LPH)
Maximum Flow Range Air	450 SCFH (12000 NLPM)
Maximum Temperature	+ 210°F (100°C) with alarms / + 300°F (150°C) without alarms
Maximum Pressure	1450 psi (100 bar) with valve / 3400 psi (235 bar ) without valve
Flow Tube/Connectors/Float	Stainless Steel AISI 316L
Display Housing	Aluminium (Stainless Steel AISI 316L)
Seals	Viton® (on flow adjusting valve and housing only), EPDM
Connections	NPT (BSP, BSPT) 1/4" or 1/2" (depending on range)
Inductive Alarm Sensor	Yes - NAMUR
Notes	

APPLICATIONS
CORROSIVE FLUID
VISCOUS FLUID **CHEMICAL PHARMACEUTICAL** 





**OVAL GEAR METER 6210** 

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		Ìa	
		16	
4	V		
		1/	1000

Models 6210			
Maximum Flow Rate	8 USGPM (30 LPM)		
Maximum Temperature	175°F (80°C) PVDF body / 104°F (40°C) PVC body		
Maximum Pressure	145 psi (10 bar)		
Body	PVDF / PVC		
Gears	PVDF		
Shafts	Hasteloy C – Other materials available, titanium shaft		
Seals	Nitrile (Viton®, EPDM)		
Connections	1/4", 3/4" BSP (NPT thread adapters available)		
Inductive Alarm Sensor	Yes - NAMUR		
Viscosity Range	30 - 1000 cSt		



### **APPLICATIONS** OIL







	The state of the s	All Control of the Co	The second second
	Model SR	Model SRx- Single	Model SRx-x Block
Maximum Flow Rate	31.7 USGPM (120LPM)	12 PPM (6 LPM)	
Connections	1" to 1-1/2" NPT (BSP)	1/4", 1/2" NPT (BSP)	
Body	Aluminum	Notes	
Maximum Temperature	176°F (80°C)	· All models - choice of seals	s Nitrile, Viton®, EPDM
Maximum Pressure	145 psi (10 bar)	· 5 year warranty · Model SRx-x is a panel mo	unt available with 4, 6 or 8 blocks.
Service By-Pass Valve	Yes	•	with our Oval D Measuring Station p. 13
Viscosity Range	30 - 1000 cSt	· Transparent cover available on all models	
Inductive Sensor	Yes - Coil or Namur	Other inductive sensors available.	aliable

### APPLICATIONS OIL



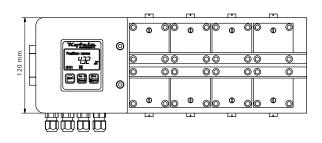


	Models 2950-51	Model SRP
Maximum Flow Rate	26 USGPM (100 LPM)	40 USGPM (150 LPM)
Maximum Temperature	176°F (80°C)	167°F (100°C)
Maximum Pressure	145 psi (10 bar)	8700 psi (600 bar)
Body	Aluminum	AISI 316
Connections	1/4", 3/4", 1", 1-1/2" NPT (BSP)	1/4", 1/2," 1" NPT (BSP)
Viscosity Range	30 - 1000 cSt	viscosity ≥50 cSt
Inductive Sensor	Yes - Coil or Namur	Magnetic sensor according to Namur, DIN 19234, or magnetic sensor 10 – 30 VDC, PNP, NO, 3-wire
Notes  · All models - choice of seals Nitrile, *Viton®, EPDM  · 5 year warranty  · Choice of gear type depending on model		<ul> <li>Model 2950 does not come with a service valve</li> <li>Model 2951 comes with a service valve</li> <li>Transparent cover available on Models 2950, 2951 and 200</li> </ul>

## The Oval Min-E for small lubrication projects or general flow monitoring







Model Oval Min-E		
Supply Voltage	+24 VDC	
Sensor Types	Kytola® coil sensor, Namur sensor (DIN 19234), NPN sensor	
Communication	Modbus RTU (RS-485)	
Ma Output	1 pc on single channel model or optional 8 pcs on multi-channel model	
Relay Output	1 pc NO, max. 48 VAC/DC, 0.5 A	
Housing	Anodized aluminum	
IP Class	IP 65	
Alarm Relays	High flow, Low flow, Low Low, No flow, Function	



#### **OVAL D For bearing lubrication in a centralized system.** 100% reliable oil flow monitoring – even at start-up!



This is the perfect solution to monitor Kytola oval gear flow rates in a centralized lubrication system. It is 100% reliable for bearing lubrication; the control station monitors the oil flow accurately under all conditions, including start-up. 24/7/365 alarming for low low, low and high oil flows. Each station supports 16, 32 or 48

- Measuring units USGPM, LPM, PPM or pulses/min
- · Communication with upper level systems

Model Oval D			
Enclosure	Stainless Steel, IP 65		
Supply Voltage	24VDC or 85-264 VAC, 50 – 60 Hz		
Sensor Type	Kytola Coil sensor, or NAMUR sensor		
Serial Communication	RS-422 or RS-485, baud rate 9,600 or 19,200		
Protocol	Modbus RTU, address 1 – 255		
Maximum System Size	255 stations or 4080 measuring points		
Alarm LEDS	Function, Alarm		
Alarm Relays	High flow, Low flow, Low Low, No flow, Function		
Display and Keyboard	4 x 20 characters, four control keys		
Measuring Unit	LPM, USGM, PPM, or pulses/min		
Dimensions	14" x 10" x 4" (35.56 cm x 25.4 cm x 10.16 cm)		
Options			
Panel	SS panels with prepiping and valves for flowmeters		
KVM Control Room Software	On-line application to monitor Oval D		



Model Oval D with SR blocks

**KVM Control Room Software Application** 

#### The OILAN A4 an on-line water in oil analyzer for lubrication oil.

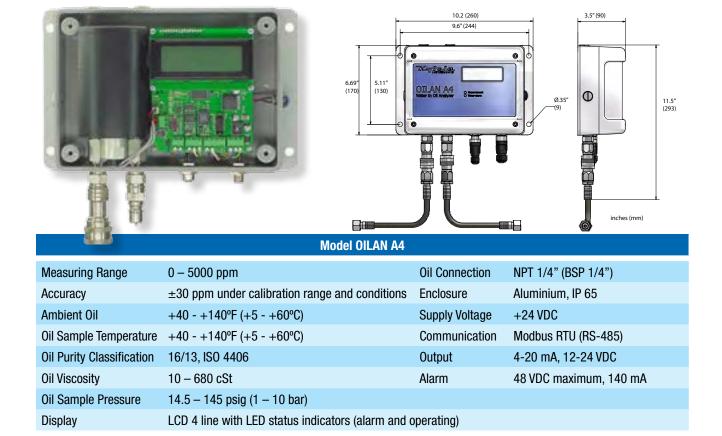
Measures the water content th on above the sathration point.



- Detects and measures the water content in oil from from 0 to 5,000 ppm
- Suitable for mineral oils and some synthetic oils with oil viscosity of 10 – 680 cSt
- Capable of supporting preventative maintenance

#### Features -

- Serial communication with upper level systems
- 4-20 mA output
- On-line measurement simple to monitor and calibrate using our KVM Control Room software
- Infrared detector, 2 wave-length measurement reference/measurement)





## When it is Essential to know the ASTM Color Value of Oil. Fast, online measurement detects changes in oil quality!



The OILCOL oil color analyzer is an online instrument based on visible light absorbance (transmittance) to indicate the ASTM D1500 color value of oil.

#### Features -

- ASTM D1500 scale from 0.5 to 8.0
- Online measurement with a response time of 4 seconds
- · Display resolution 0.1
- Accuracy ±0.3 (the ASTM scale step is 0.5)
- Serial connection (Modbus) with 4 20 mA output

MODEL OILCOL
ASTM D1500 scale from 0.5 to 8.0
$\pm 0.3$ (as the ASTM D1500 scale step is 0.5)
13/8" or 10 mm compression fitting
8/6 mm (OD/ID) hose
LED, 7 segments, 2 digits
290 psi (20 bar)
16/13, ISO 4406
0—500 cSt
-4°F+140°F (-4°F+158°F with cooling option) -20°C+60°C (-20°C+70°C with cooling option)
Modbus RTU (RS485)
24 VDC
4-20 mA
Aluminum
IP 65

#### **ACCESSORIES - CHECK VALVES**







			CERT.
	Model 2680A	Model 2680B	Model CV
Body	AISI 316	AISI 316	AISI 316
Connections	BSP 1/4" - BSP 1" (male inlet, female outlet)	BSP 1/4" - BSP 1" (inlet female, outlet female)	Inlet for 3/8" hose, outlet NPT 1/4" - NPT 1/2" (Inlet for 10mm hose, outlet BSP 1/4" - BSP 1/2")
Cracking Pressure	2.18 - 3.5 psi (0.15 - 0.25 bar)	2.18 - 3.5 psi (0.15 - 0.25 bar)	2.18 - 3.5 psi (0.15 - 0.25 bar)

#### ACCESSORIES - DIFFERENTIAL PRESSURE METERS





	Model DPA	Model DPP
Body	Acrylic (PMMA)	Acrylic (PMMA)
Connections	5/32"-7/32" hose inside diameter (4-6 mm hose inside diameter)	5/32"-7/32" hose inside diameter (4-6 mm hose inside diameter)
Measuring Range	500 Pa	5 kPa

We offer a full line of inductive sensor alarms, pressure gauges and process transmitters.







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## RELIABILITY

design

multi-tube flow meters

oval flow systems

certification

sensors

engineering

rgy efficient

oil lubrication

flow meters

components

oval gears

on anaryzora

five year warranty

QUALITY

nstant flow regulators

### **EXCELLENCE**

metal tube flow meter

sealing liquid monitors

oval d measuring station

iso certified

RELIABL

stainless steel oval gears

energy savings

water savings