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Kytola INSTRUMENTS

OVAL GEAR FLOW METER 2951

KYTOLA Oval Gear Meter Model 2951 is designed and developed for lubrication oil measurement in demanding industrial environments.

The oval gear meter is a positive displacement flow meter, which always shows the correct flow rate regardless of oil temperature or viscosity changes.

- For oil
- Max 100 L/min
- Alternative pulse sensors
- BSP or NPT connections
- With flow adjustment valve
- ATEX version (II 2GD c TX) as option

ISO 9001:2008 ISO 14001:2004

The flow meter consists of two elliptical gears, which the flow rotates. A coil sensor or an inductive proximity switch picks up the rotation, and the pulse signal can be transferred to indicators, counters or automation systems.

FEATURES

Several flow ranges
Large viscosity range 30 – 1000 cSt
Independent of viscosity changes
Sturdy construction
Pulse output

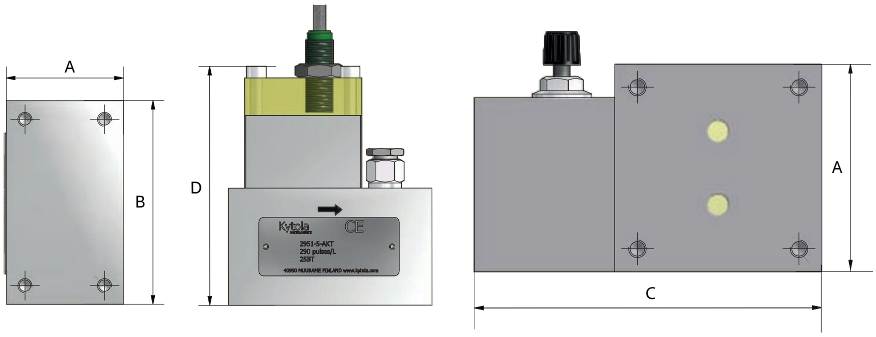
TYPICAL APPLICATIONS

Lubricant monitoring
Industrial flow monitoring
Process control

2951 TECHNICAL DATA

Model	2951-1	2951-2	2951-5	2951-10	2951-20	2951-30	2951-60	2951-100
Output (pulses/L)	820	450	290	126.8	75.8	49.8	22.4	12.4
Weight	910 g	900 g	880 g	1.8 kg	1.8 kg	2.5 kg	4.9 kg	13.5 kg
Connections	1/4”	1/4”	1/4”	3/4”	3/4”	3/4”	1 ½”	1 ½”
Gears	Composite polymer or brass (depending on range)							
Body	Aluminium							
Cover	Polyamide							
Valve	AISI 316							
Seals	Viton®							
Sensor	Namur; DIN 19234 (*Other types of inductive proximity sensor)							
Max. pressure	10 bar							
Max. temperature	+80°C							
Viscosity range	30 – 1000 cSt							
Accuracy	±5% of reading				* Special construction on request			

Model	A	B	C	D
2951-1	50	87	-	102
2951-2	50	87	-	102
2951-5	50	87	-	102
2951-10	80	135	-	75
2951-20	80	135	-	75
2951-30	80	135	-	95
2951-60	118	-	198	107
2951-100	199	-	279	117



2951– ☐ –A ☐ ☐ – ☐ ☐ ☐

Flow Range

0.1 – 1	L/min	1
0.2 – 2	L/min	2
0.5 – 5	L/min	5
1 – 10	L/min	10
2 – 20	L/min	20
3 – 30	L/min	30
6 – 60	L/min	60
10 – 100	L/min	100

Gears

Composite polymer (1–5 L/min)	K
Brass (10–100 L/min)	P

Cover

Polyamide	T

Connections

BSP threads	*blank*
NPT threads	N

Sensor

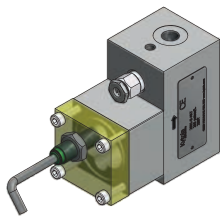
NAMUR sensor	*blank*
Without sensor (M12 x 1 thread)	D
PNP/NPN sensor (2-wire)	F
PNP sensor (3-wire)	P
NPN sensor (3-wire)	T
Coil sensor (compatible with Kytola readout units)	C

Special Feature

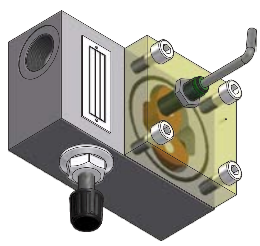
ATEX version	Z

Standard feature: leave *blank*
Special feature: choose **C**haracter

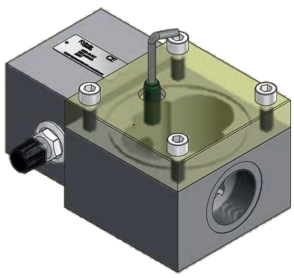
2951-1 ... 2951-5



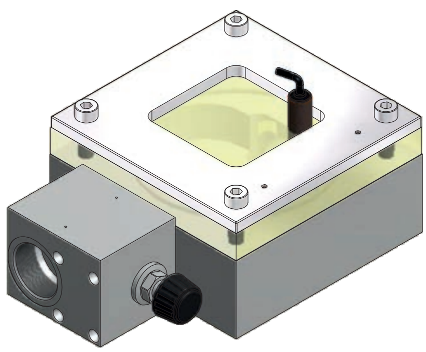
2951-10 ... 2951-30



2951-60



2951-100



www.kytola.com

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