

ROBUST HIGH QUALITY FLOW INDICATORS

Eletta's upgraded
replacement of old
ABB Flow Indicator



The new and upgraded Mechanical Flow Indicator for Water & Oil

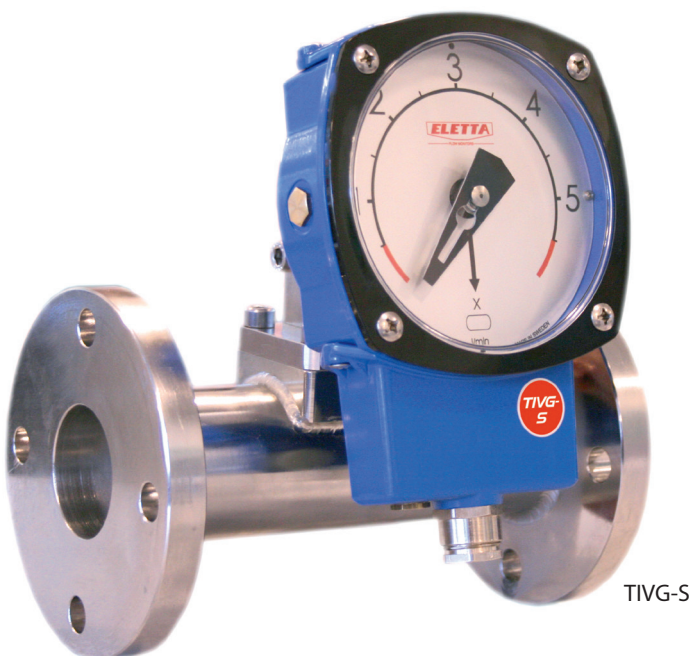
The Eletta TIVG-S-series is replacing the old TIVG-F and R series with updated materials and functions. The upgrade gives a higher quality indicator allowing higher flow rate and wider flow turn down. The Flow Indicator is a protective device which controls the given flow of the liquid in a pipe is at a correct rate and controls any deviations with pre-set micro switches.

It has a large and easy readable dial of 120 mm which is clearly visible even in a harsh and dusty industrial environment.

The Eletta TIVG-S has two micro switch setpoints which are independently adjustable within the measuring range and they can be set for high and low flow alarms for example, to protect expensive equipment such as; coolant in transformers, induction coils of furnaces, generators, diesel engine and compressors.

The Indicator is insensitive to surrounding magnetic fields and it combines the long-standing proven mechanical function with outstanding reliability.

The whole product is manufactured with all wetted parts in Stainless Steel.



TIVG-S



The TIVG-S-series Flow Indicator

The Eletta Flow Indicators function is based on the proven and dependable differential pressure principle. This is perhaps the oldest and most widely used principle for flow metering, mainly because of its simplicity and its relatively low cost.

The TIVG-S-series Flow Indicator is used to monitor and control the flow of liquids in pipes from 15 mm to 400 mm. The direct reading TIVG-S, has a large and easy readable 120 mm dial with a linear scale.

The TIVG-S comes in various measuring ranges with a span from 0,4 to 25 000 l/min and depending on the application, it is possible to order a flow range and alarm settings which suit the requests of the installation.

TIVG-S		
Dim. DN	lit/min	MCx(S25)
1/2" DN 15	0,4 - 2	0,4
	1 - 5	1
	2 - 10	2
	4 - 20	4
	6 - 30	6
3/4" DN 20	8 - 40	8
	4 - 20	4
	6 - 30	6
1" DN25	8 - 40	8
	12 - 60	12
	16 - 80	16
	24 - 120	24
	30 - 150	30
1 1/4" DN 32	8 - 40	8
	20 - 100	20
	40 - 200	40
	50 - 250	50
1 1/2" DN 40	8 - 40	8
	20 - 100	20
	40 - 200	40
	60 - 300	60
2" DN 50	20 - 100	20
	40 - 200	40
	70 - 350	70
	100 - 500	100
2 1/2" DN 65	20 - 100	20
	50 - 250	50
	100 - 500	100
	160 - 800	160
3" DN 80	40 - 200	40
	80 - 400	80
	160 - 800	160
	240 - 1200	240
4" DN 100	80 - 400	80
	160 - 800	160
	250 - 1250	250
	400 - 2000	400
5" DN 125	100 - 500	100
	200 - 1000	200
	400 - 2000	400
	600 - 3000	600
6" DN 150	200 - 1000	200
	400 - 2000	400
	600 - 3000	600
	900 - 4500	900
8" DN 200	400 - 2000	400
	600 - 3000	600
	1000 - 5000	1000
	1500 - 7500	1500
10" DN 250	600 - 3000	600
	1000 - 5000	1000
	1600 - 8000	1600
	2400 - 12000	2400

>DN 250 contact factory.

Modular design

The Eletta Flow Indicators including the TIVG-S, can be fitted various features such as pre-set alarms, special dial scales, stainless steel enclosure etc. Please contact factory for more details or requests.

The Instrument consists of two parts mainly, i.e. the Pipe Section and the Control Unit. The Pipe Section is the part that is to be mounted in the process pipe and have the same measures as the old TIVG-F. This means that it is directly interchangeable or replaces an old unit without altering the piping. The Control Unit is mounted directly onto the Pipe Section.

As the Control Unit is pre-calibrated before leaving our production facilities, you can change pipe sections in the field to fit other dimensions and materials than originally ordered without recalibration.

Flow range	0,4–25 000 l min (liquid), to choose the right range, please refer to table of Measuring ranges
Flow turndown	1:5
Wetted Material	Stainless steel 316L. Painted steel (DN350-400).
Rubber Parts	Fluorinated rubber (Viton)
Min. pressure	Appr. 700 – 1000 mbar (0,7 – 1 bar)
Max. pressure	16 bar < DN250 and PN 10 >DN250
Max. temp. Control Unit	90°C standard, 120°C optional
Max. temp. Pipe Section	120°C (248°F)
Enclosure TIVG-S	IP65 (NEMA4)
Dial	Large 120 mm diameter with linear scale and front glass of PC
Electrical terminal:	Ceramic
Process Connection	DN 15–400 DIN/ANSI
Alarm Contacts	TIVG-S has 2 (two) micro switch SPDT contacts, independently adjustable within the ordered
Micro switch spec	Contact surfaces are silver plated as standard. Type: SPDT Hystereses: 10% Rated voltage: 480 VAC/15A Breaking current: 15@125, 250, 480 VAC 2A@30 VDC Resistive load: 0,4A@125 VDC 0,2A@230 VDC
Accuracy	<+ -5% F.S within 20–80% of Flow range <+ -10% F.S within 100% of Flow range
Repeatability	<2% actual

Certificates

