Variable area flowmeter

Model :LZT

Variable area flow meters – a reliable, accurate and economical measuring principle

Main advantages

- The flowmeters require no auxiliary power
- Cost effective to measure the flow rate
- Break-proof and corrosion-resistant
- Accessories like ; limit contacts
- Low pressure loss
- Can be used for liquids and gases
- Volume- and % scale as standard
- Up to 6 bar/ 60 °C

Segments

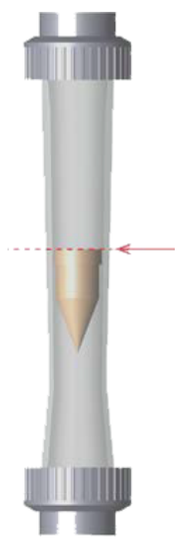
- Water Treatment
- Chemical Process Industry
- Microelectronics
- Food & Beverage
- Ship Building
- Building technology
- And many more

Variable area flow meters from Lekton instrument are radially installed dismountable meters for flow measuring in industrial piping applications. The measurement ranges, which are attuned to our customers' needs, and the range of materials available for the tubes and connection ends, mean that the flow meters can be used for a wide range of applications and a great variety of media.

If a medium flows upwards at a sufficient rate of flow through the vertically mounted taper tube, the float is raised to the point at which a state of equilibrium sets in between the lifting force of the medium and the weight of the float. Since the mean rate of flow is proportional to the quantity flowing through per unit of time, this state of equilibrium corresponds to the measurement of the instantaneous flow rate.

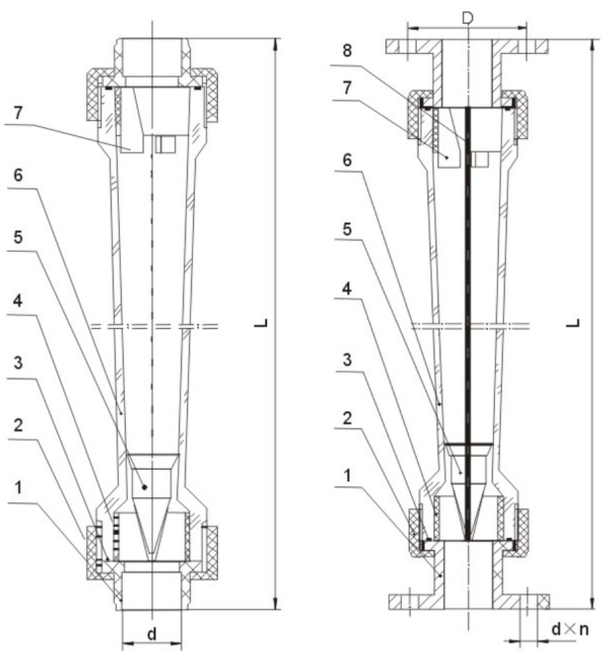
Measuring principle - Three main forces act on the float

- The weight G
- The buoyancy A
- The flow force K



Accurate reading

The top edge of the float indicates the flow volume. If special scales are applied subsequently, it must be ascertained that the scale marking is affixed congruently with the one on the taper tube.



Number	Name	Material
1	Connection tube	ABS
2	Nut	ABS
3	O -ring	NBR
4	Bottom stop shaft	ABS
5	Floater	ABS
6	Cone tube	PS
7	Top stop shaft	ABS
8	Guide rod	316

LEKTON

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DN (mm)	(Short type) with guide rod	Measuring range		Glue connection size	Thread connection size	(Long type) without guide rod	Measuring range		Glue connection size	Thread connection size
15	LK-LZT-15S	10-100 16-160 25-250 40-400 60-600 100-1000	lt/h	Ø 20	G 1/2"	LK-LZT-15L	10-100 16-160 25-250 40-400 60-600	lt/h	Ø 20	G 1/2 “
25	LK-LZT-25S	100-1000 160-1600 250-2500	lt/h	Ø 32	G 3/4"	LK-LZT-25L	100-1000 160-1600 250-2500	lt/h	Ø 32	G 3/4 "
32	LK-LZT-32S	0,4-4 0,6-6	m^3/h	Ø 40	G 1"	-	-		-	-
50	LK-LZT-50S	0,4-4 0,6-6 1-10 1,6-16	m^3/h	Ø 63	G 11/2"	LK-LZT-50L	0,4-4 0,6-6 1-10	m^3/h	Ø 63	G 11/2 “
65	LK-LZT-65	5-25 8-40 12-60	m^3/h	Ø 75	2" NPT	-	-		-	-
100	LK-LZT-100 (Flanged)	12-60 14-90 20-120	m^3/h	Ø 110	(Flanged)	-	-		-	-
125	LK-LZT-125 (Flanged)	25-150 30-180	m^3/h	Ø 110	(Flanged)	-	-		-	-
150	LK-LZT-150 (Flanged)	12-60 18-90 20-120 25-150 30-180	m^3/h	Ø 110	(Flanged)	-	-		-	-

Diamensions :

DN (mm)	**Long tube**			**Short tube**			**Flanged tube**			
	L	d		L	d		L		d	
		Glue	Thread		Glue	Thread	Long tube	Short tube	Glue	Thread
15	280	Ø 20	G 1/2 "	200	Ø 20	G 1/2 “	320	240	65	14x4
25	380	ø 32	G 3/4 “	226	Ø 32	G 3/4 “	432	278	85	14x4
32	-	-	-	288	Ø 40	G 1 “	-	351	100	18x4
40	417	Ø 50	G 11/4 “	-	-	-	489	-	110	18x4
50	435	ø 63	G 11/2 "	341	Ø 63	G 11/2 “	519	435	125	18x4
65				430	Ø 75	G 2 “	-	522	145	18x4
80							540		160	18x8
100							555		180	18x8
125							555		210	18x8
150							555		240	22x8