

Vortex Flow Meter



TECHNICAL PARAMETER

- Application** : liquid, gas, steam
- Pipe size** : DN15-DN300 is flange/ tri-clamp/thread connection, > DN300 is the insertion type.
- LCD display**
- Output** : 4-20mA, Pulse, RS485, Modbus, HART
- Power supply** : 24V DC, 3.6V Lithium Battery.
- Product material** : 304SS, 316L
- flow range** : liquid: >0.3m/s, gas: >3m/s
- Temperature range** : -40 to 350 °C;
- Pressure** : 1.6MPa, 2.5MPa, 4.0MPa, High pressure can be customized

FLOW RATE

Diameter		Gas	Liquid
mm	(inch)	Flow(m ³ /h)	Flow(m ³ /h)
15	1/2"	2-20	0.2-2
20	3/4"	6-50	1.2-12
25	1"	8-60	1.6-16
32	1-1/4"	12-120	2-20
40	1-1/2"	20-200	2-30
50	2"	30-300	3-50
65	2-1/2"	50-500	18-180
80	3"	70-700	15-150
100	4"	100-1000	20-200
125	5"	150-1500	36-360
150	6"	200-2000	50-500
200	8"	400-4000	100-1000
250	10"	600-6000	150-1500
300	12"	1000-10000	200-2000



SATURATED STEAM MASS FLOW MEASUREMENT RANGE (FOR REFERENCE)

P (MPa)		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
T (°C)		120.2	133.5	143.6	151.8	158.8	164.9	170.4	175.3	179.8	187.9	195.0	201.3	207.1	212.3
p (kg/h)		3	4	2	4	4	6	1	6	8	6	4	7	1	7
		1.129	1.651	2.163	2.669	3.17	3.667	4.162	4.655	5.147	6.127	7.106	8.085	9.065	10.05
DN20		7	10	12	14	18	20	24	28	30	36	42	48	54	60
Qmax	kg														
Qmin		10	100	120	140	180	200	240	280	300	360	420	480	540	600
DN25		9	13	16	20	25	30	32	37	40	48	56	64	72	80
Qmax	kg														
Qmin		90	130	160	200	250	300	320	370	400	480	560	640	720	800
DN32		13	20	25	32	36	44	48	56	60	73	84	96	110	120
Qmax	kg														
Qmin		130	200	250	320	360	440	480	560	600	730	840	960	1100	1200
DN40		22	33	40	50	60	75	80	94	100	120	140	160	180	200
Qmax	kg														
Qmin		220	330	400	500	600	750	800	940	1000	1200	1400	1600	1800	2000
DN50		30	50	60	80	90	110	120	140	150	180	210	240	270	300
Qmax	kg														
Qmin		300	500	600	800	900	1100	1200	1400	1500	1800	2100	2400	2700	3000
DN65		50	80	100	130	150	180	200	240	250	300	350	400	450	500
Qmax	kg														
Qmin		500	800	1000	1300	1500	1800	2000	2400	2500	3000	3500	4000	4500	5000
DN80		80	120	140	180	210	250	300	320	360	420	500	560	630	700
Qmax	kg														
Qmin		800	1200	1400	1800	2100	2500	3000	3200	3600	4200	5000	5600	6300	7000
DN100		110	170	210	270	320	370	420	470	510	610	700	800	900	1000
Qmax	kg														
Qmin		1100	1700	2100	2700	3200	3700	4200	4700	5100	6100	7000	8000	9000	10000
DN125		0.17	0.24	0.33	0.40	0.48	0.56	0.64	0.7	0.78	0.9	1.0	1.2	1.4	1.5
Qmax	t														
Qmin		1.7	2.4	3.3	4.0	4.8	5.6	6.4	7.0	7.8	9.0	10	12	14	15
DN150		0.24	0.31	0.44	0.55	0.65	0.75	0.84	0.95	1.10	1.4	1.6	1.8	2.0	2.4
Qmax	t														
Qmin		2.4	3.1	4.4	5.5	6.5	7.5	8.4	9.5	11.0	14	16	18	20	24





SATURATED STEAM MASS FLOW MEASUREMENT RANGE (FOR REFERENCE)

P (MPa)		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
T (°C)		120.2	133.5	143.6	151.8	158.8	164.9	170.4	175.3	179.8	187.9	195.0	201.3	207.1	212.3
p (kg/h)		3	4	2	4	4	6	1	6	8	6	4	7	1	7
		1.129	1.651	2.163	2.669	3.17	3.667	4.162	4.655	5.147	6.127	7.106	8.085	9.065	10.05
DN200	t	0.5	0.7	0.85	1.05	1.3	1.5	1.6	1.9	2.1	2.5	2.9	3.2	3.6	4.0
Qmax		50	70	85	10.5	13	15	16	19	21	25	29	32	36	40
Qmin															
DN250	t	0.7	1.0	1.3	1.5	1.9	2.1	2.5	2.8	3.1	3.7	4.5	5.0	5.5	6.1
Qmax		7.0	10	13	15	19	21	25	28	31	37	45	50	55	61
Qmin															
DN300	t	1.10	1.7	2.2	2.7	3.2	3.7	4.2	4.7	5.2	6.2	7.2	8.1	9.1	10.0
Qmax		11	17	22	27	32	37	42	47	52	62	72	81	91	100
Qmin															
DN350	t	1.7	2.4	3.3	4.0	4.8	5.6	6.4	7.0	7.8	9.0	10	12	14	15
Qmax		17	24	33	40	48	56	64	70	78	90	100	120	140	150
Qmin															
DN400	t	2.0	3.0	3.7	4.9	5.5	6.7	7.3	8.5	9.2	11.0	14	15.6	17.2	18.5
Qmax		20	30	37	49	55	67	73	85	92	110	140	156	172	185
Qmin															
DN500	t	2.4	3.1	4.4	5.5	6.5	7.5	8.4	9.5	11	14	16	18	20	24
Qmax		24	31	44	55	65	75	84	95	110	140	160	180	200	240
Qmin															
DN600	t	3.5	5.1	6.7	8.4	9.8	11.5	12.9	15.0	16.2	19.3	22.4	25.6	28.8	32.1
Qmax		35	51	67	84	98	115	129	150	162	193	224	256	288	321
Qmin															



MODEL SELECTION

LUGB	-□	-□	-□	-□	-□	-□	-□	-□	-□	-□	-□	Explanation	
Nominal Diameter (In mm)	diameter											DN15-300(Pipeline)	
												DN200-1500(Plug-in)	
Connection	Pipeline	FL										Flange connection	
		JZ										Flange clamp	
	Insert	Z										Special rules	
		J										Simple Formula	
Accuracy			Pipe line	10								1.0%R	
				15								1.5%R	
				Insert								20	2.0%R
												25	2.5%R
												Z	Special accuracy standards
Temperature and pressure				S								T(S)P(S)At normal temperature and pressure	
				Z								T(Z)P(Z)Twin extreme pressure	
Communication protocol												No communication interface	
												H	HART protocol
												M	MODBUS protocol
Output												No output	
												2	Two-wire 4-20mA output
												3	Pulse output



MODEL SELECTION

LUGB	-□	-□	-□	-□	-□	-□	-□	-□	-□	-□	-□	Explanation
Power supply								D				DC12V
								DB				Dual 12V power supply and battery
								DD				DC24V
								B				Battery 3.6V power supply, no signal output uses only
Sensor Material								S				304Stainless steel
								L				316Stainless steel
Core Component Materials								S				304Stainless steel Probes
								L				316Stainless steel Probes
Measuring medium										1		Gas
										2		Liquid
										3		Saturated steam
										4		Superheated steam

