



instrument

**2024
PRODUCT
INTRODUCTION**

Plastic Rotameter

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Company Profile

Weifang AOBO Instrument Technology Development Co., Ltd., founded in 2002, with registration capital of 10 million RMB, is a "High-Tech" and "Double-Software Certification" enterprise specialized in "flow measurement and intelligent measurement & control" industry, integrating R&D, production, sales and service.

The company has a core R&D team for computer software and technology, automatic intelligent control, HVAC engineering design and flow measurement. It has the ability to provide customers with specific solutions and complete sets of products according to their different needs, based on years of practical experience. Especially in the heating industry, by the customer's recognition, has a high reputation in the industry.

The products are mainly used in the measurement and control of "steam, liquid, gas, sewage and tap water"; and especially suitable for energy monitoring and energy-saving control in many industries, such as thermal power plants, thermal companies, residential heating, petroleum, chemical industry, papermaking, food, coating, printing & dyeing and HVAC.

Since its foundation, based on self-developed and leading technology, reliable quality, high-quality service and good reputation, our company has been warmly accepted by customers, and become a designated supplier for many central enterprises and listed companies.

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I. Product Overview

ABDT-LZT series plastic rotameter has the characteristics of simple structure, light weight, corrosion resistance, not easy to break, non-toxic and tasteless, easy to use and so on. It is mainly used in chemical industry, light industry, medicine, food, environmental protection and other departments to measure the flow of single-phase non pulsating flow of liquid.



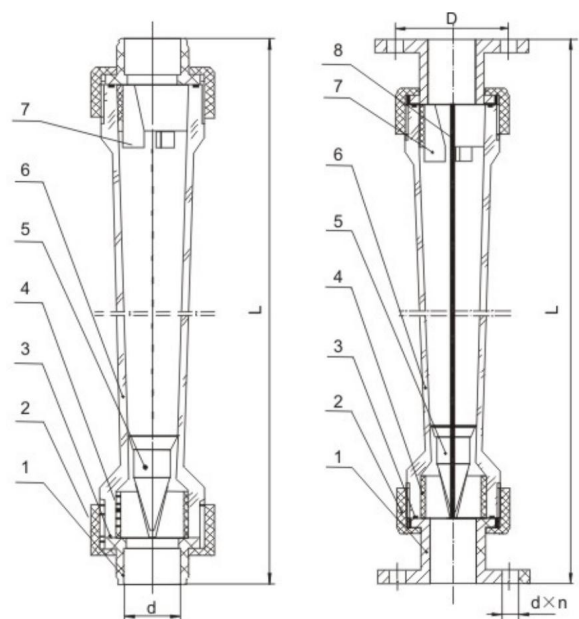
II. Structure and Outline Drawing

Flowmeter structure: It is mainly composed of transparent plastic cone tube with small end downward and large end upward, float that can move up and down in the cone tube, nut, connection pipe, guide rod, stop shaft, etc.

The outline is shown in the figure: it is mainly divided into short tube type and long tube type. According to the connection method, it also has plug-in pipe connection, thread connection and flange connection.

Parts and material:

Number	Name	Material
1	Connection tube	UPVC
2	Nut	ABS
3	O-ring	Silicon rubber or EPDM
4	Bottom stop shaft	PP
5	Floater	ABS
6	Cone tube	AS
7	Top stop shaft	PE
8	Guide rod	SS304 or SS316



Note:

(1)The conventional joint is UPVC engineering plastic sink connection.

(2)Under special circumstances, the guide rod can be F46 lined with 304 stainless steel.

(3)"O" ring can also be fluororubber, etc.

III. Installation Dimension

Nominal diameter (mm)	Long tube size			Short tube size			Flange connection size (PN1.0 Injection molding flange)			
	L	d		L	d		L		D	d*n
		Sinking insert	Thread		Sinking insert	Thread	Long tube	Short tube		
15	280	Φ 20	G1/2"	200	Φ 20	G1/2"	330	250	65	14*4
25	380	Φ 32	G3/4"	226	Φ 32	G3/4"	445	291	85	14*4
32	—	—	—	288	Φ 40	G1"	—	351	100	18*4
40	430	Φ 50	—	341	Φ 50	—	505	416	110	18*4
50	435	Φ 63	G1-1/2"	341	Φ 63	G1-1/2"	519	430	125	18*4
65	—	—	—	430	Φ 75	G2"	—	522	145	18*4
80	—	—	—	505	Φ 90	—	540		160	18*8
100	—	—	—	—	—	—	555		180	18*8
125	—	—	—	—	—	—	555		210	18*8
150	—	—	—	—	—	—	555		240	22*8
200	—	—	—	—	—	—	830		295	22*8
250	—	—	—	—	—	—	830		350	22*12
300	—	—	—	—	—	—	830		400	22*12

IV. Specification and Model

Note:

(1)The above are conventional flow and special flow needs customization.

(2)The accuracy of the flowmeter is grade 4, the pressure resistance is $\leq 0.6\text{MPa}$, the medium used is water or dilute acid or alkali with a concentration of less than 30%, the temperature is generally $0\text{ }^{\circ}\text{C} \sim 40\text{ }^{\circ}\text{C}$, and it can be used to $60\text{ }^{\circ}\text{C}$ in a short time.

Long tube type

Model		Measuring Range	Medium	Remark
ABDT-LZT-15S06L		6-60L/h	Water	Without Guide Rod
ABDT-LZT-15S10L		10-100L/h		
ABDT-LZT-15S16L		16-160L/h		
ABDT-LZT-15S25L		25-250L/h		
ABDT-LZT-15S40L		40-400L/h		
ABDT-LZT-15S60L		60-600L/h		
ABDT-LZT-15S100L		100-1000L/h		
ABDT-LZT-25S06L		60-600L/h		
ABDT-LZT-25S10L		0.1-1m ³ /h		
ABDT-LZT-25S16L		0.16-1.6m ³ /h		
ABDT-LZT-25S25L		0.25-2.5m ³ /h		
ABDT-LZT-25S30L		0.3-3m ³ /h		
ABDT-LZT-40S04L		0.4-4m ³ /h		
ABDT-LZT-40S06L		0.6-6m ³ /h		
ABDT-LZT-50S04L		0.4-4m ³ /h		
ABDT-LZT-50S06L		0.6-6m ³ /h		
ABDT-LZT-50S10L		1-10m ³ /h		
ABDT-LZT-50S16L		1.6-16m ³ /h		
ABDT-LZT-100 ABDT-LZT-125 ABDT-LZT-150	S06L/F	12-60m ³ /h		Flange Connection With Guide Rod
	S09L/F	14-90m ³ /h		
	S12L/F	18-120m ³ /h		
	S15L/F	20-150m ³ /h		
	S18L/F	25-180m ³ /h		
	S20L/F	22-200m ³ /h		
ABDT-LZT-200 ABDT-LZT-250 ABDT-LZT-300	S20L/F	20-200m ³ /h		
	S25L/F	25-250m ³ /h		
	S30L/F	30-300m ³ /h		
	S35L/F	30-350m ³ /h		
	S40L/F	40-400m ³ /h		
				With Guide Rod

Short tube type

Model	Measuring Range	Medium	Remark
ABDT-LZT-15S06S	6-60L/h	Water	With Guide Rod
ABDT-LZT-15S10S	10-100L/h		
ABDT-LZT-15S16S	16-160L/h		
ABDT-LZT-15S25S	25-250L/h		
ABDT-LZT-15S40S	40-400L/h		
ABDT-LZT-15S60S	60-600L/h		
ABDT-LZT-15S100S	100-1000L/h		
ABDT-LZT-25S06S	60-600L/h		
ABDT-LZT-25S10S	0.1-1m ³ /h		
ABDT-LZT-25S16S	0.16-1.6m ³ /h		
ABDT-LZT-25S25S	0.25-2.5m ³ /h		
ABDT-LZT-25S30S	0.3-3m ³ /h		
ABDT-LZT-32S04S	0.4-4m ³ /h		
ABDT-LZT-32S06S	0.6-6m ³ /h		
ABDT-LZT-32S10S	1-10m ³ /h		
ABDT-LZT-40S04S	0.4-4m ³ /h		
ABDT-LZT-40S06S	0.6-6m ³ /h		
ABDT-LZT-40S10S	1-10m ³ /h		
ABDT-LZT-40S16S	1.6-16m ³ /h		
ABDT-LZT-50S04S	0.4-4m ³ /h		
ABDT-LZT-50S06S	0.6-6m ³ /h		
ABDT-LZT-50S10S	1-10m ³ /h		
ABDT-LZT-50S16S	1.6-16m ³ /h		
ABDT-LZT-65S16S	2-16m ³ /h		
ABDT-LZT-65S25S	5-25m ³ /h		
ABDT-LZT-65S40S	8-40m ³ /h		
ABDT-LZT-65S60S	12-60m ³ /h		
ABDT-LZT-80S25S	5-25m ³ /h		
ABDT-LZT-80S40S	8-40m ³ /h		

ABDT-LZT-80S60S	12-60m ³ /h		Flange Connection With Guide Rod
ABDT-LZT-80S80S	12-60m ³ /h		
ABDT-LZT-80S25S/F	5-25m ³ /h		
ABDT-LZT-80S40S/F	8-40m ³ /h		
ABDT-LZT-80S60S/F	12-60m ³ /h		

V. Installation and Precautions

(1) Before installation, first disassemble the outlet connecting pipes of the flowmeter to remove the foam or the plastic pipe supports in the instrument, then assemble the connecting pipes in the flowmeter.

Note: The O-ring seal shall be installed in the grooves of the connecting pipes to prevent water leakage in reassembling the connecting pipes.

(2) The matched (ABS or PVC) plastic pipe can be used for the flowmeter interface by glue connection. It can also be connected with plastic flange first and then metal flange.

(3) The flowmeter must be installed vertically with an appropriate height convenient for float reading (the included angle between the center of the flowmeter and the plumb line shall not exceed 5°), and the sight shall be parallel to the reading position of the float when reading.

(4) The straight sections for the upstream and downstream inlet and outlet of the flowmeter shall be greater than or equal to 5 times the nominal diameter of the flowmeter.

(5) A filter shall be installed at the upstream of the flowmeter, if the measured fluid contains large particle impurities or dirt.

(6) If the measured fluid is the pulsating flow, and the normal measurement can not be carried out due to the float up and down, the buffer and point setter with suitable sizes shall be installed at the upstream of the flowmeter.

(7) Try to use the optimum flow section of the flowmeter to test the flow (the optimum flow section generally refers to 40%-70% of the maximum flow).

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