

aobo

instrument

**2024
PRODUCT
INTRODUCTION**

Pipe Flowmeter



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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.

Contact

AOBO Instrument Technology Development Co.,Ltd

No. 8009 Minzhu St.-Weifang,Shandong Province
261100,China

Mob.: +86 19953631088/+8619953631096

Email: aobometer@gmail.com

All of the catalogue and company information can be found at:

WWW.AOBOINSTRUMENT.COM

I. Product Overview

Acrylic tube rotameter (piping type) is one of the variable-area flow meters. The measuring tube is made of high-quality and transparent lucite (acrylic). This rotameter is mainly applied to clean water treatment and environmental protection projects. It is also widely used in chemical industry, petroleum, light industry, medicine, fertilizer, food, papermaking scientific research and other fields to measure the single-phase and non-pulsing flow of liquid and gas. I. Product Overview



Acrylic tube rotameter (piping type) has the features of high transparency, easy to read, not easy to break, light weight, long-life, easy installation and connection, etc.

II. Technical Parameters

Normal flow rate range (water)	GPM	0.1-1	0.2-2	1-5	1-10	2-16	2-20	4-40	6-60	10-100	50-150
	LPM	0.5-4	1-7	2-18	5-35	4-60	10-70	15-150	25-250	50-350	190-550
Accuracy	$\pm 4\%FS$ $\pm 6\%FS$										
Repeatability	$\pm 0.25\%FS$										
Maximum pressure	1MPa/150psig (Higher pressure resistance needs to be customized)										
Maximum temperature	80°C/176°F										
Body material	PMMA(Acrylic)										
Float material	316(Stainless steel) Agate ball (micro flow)										
Guide rod material	316(Stainless steel)										
Fastening screw material	H62(Copper)										
Tube connection material	PVC, ABS(Nonpoisonous) (Can be made of stainless steel or copper chromium)										
Upper and lower adapter bearing	F46										
O Shape sealing ring	Silicon rubber & Viton										

III. Structure and Size

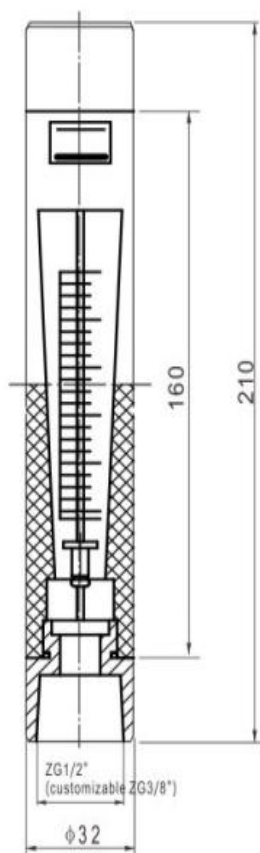
3.1 ABDT-LZT-10 Series Piping Type Flowmeter

Model	Measuring range	Medium	Remarks
ABDT-LZT-10005G	0.05-0.5GPM/0.2-2LPM	Water	Circular
ABDT-LZT-1001G	0.1-1GPM/0.4-4LPM		
ABDT-LZT-1002G	0.2-2GPM/1-7LPM		
ABDT-LZT-1003G	0.3-3GPM/1-11LPM		
ABDT-LZT-1005G	0.5-5GPM/2-18LPM		

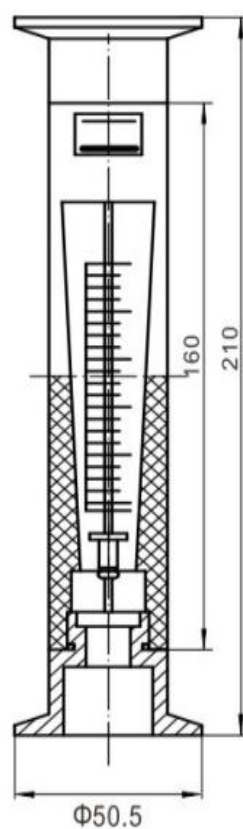
Notes: ABDT-LZT-10 Series piping type rotameter's connection joints can also be replaced with clamp. Add -K after normal model when order.

Optional clamp size	$\phi 50.5$
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Dimensions Diagrams(mm)



ABDT-LZT-10 □□ G



ABDT-LZT-10 □□ G-K

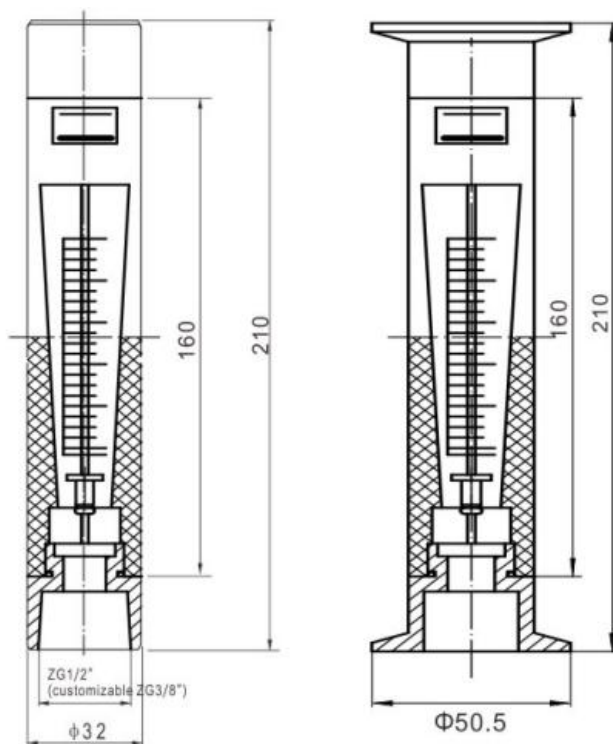
3.2 ABDT-LZT-15 Series Piping Type Flowmeter

Model	Measuring range	Medium	Remarks
ABDT-LZT-1510G	10~100L/h	Water	Circular
ABDT-LZT-1516G	16~160L/h		
ABDT-LZT-1525G	25-250L/h		
ABDT-LZT-15A03G	0.3~3m³/h	Air	
ABDT-LZT-15A04G	0.4~4m³/h		
ABDT-LZT-15A06G	0.6~6m³/h		
ABDT-LZT-15A08G	0.8~8m³/h		
ABDT-LZT-15A10G	1-10m³/h		
ABDT-LZT-15A16G	1.6~16m³/h		
ABDT-LZT-15A25G	2.5~25m³/h		
ABDT-LZT-15A40G	4~40m³/h		

Notes: ABDT-LZT-15 Series piping type rotameter's connection type can also be replaced with clamp. Add -K after normal model when order.

Optional clamp size	Φ 50.5
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Dimensions Diagrams(mm)



ABDT-LZT-15 □ □ G

ABDT-LZT-15A □ □ G

ABDT-LZT-15 □ □ G-K

ABDT-LZT-15A □ □ G-K

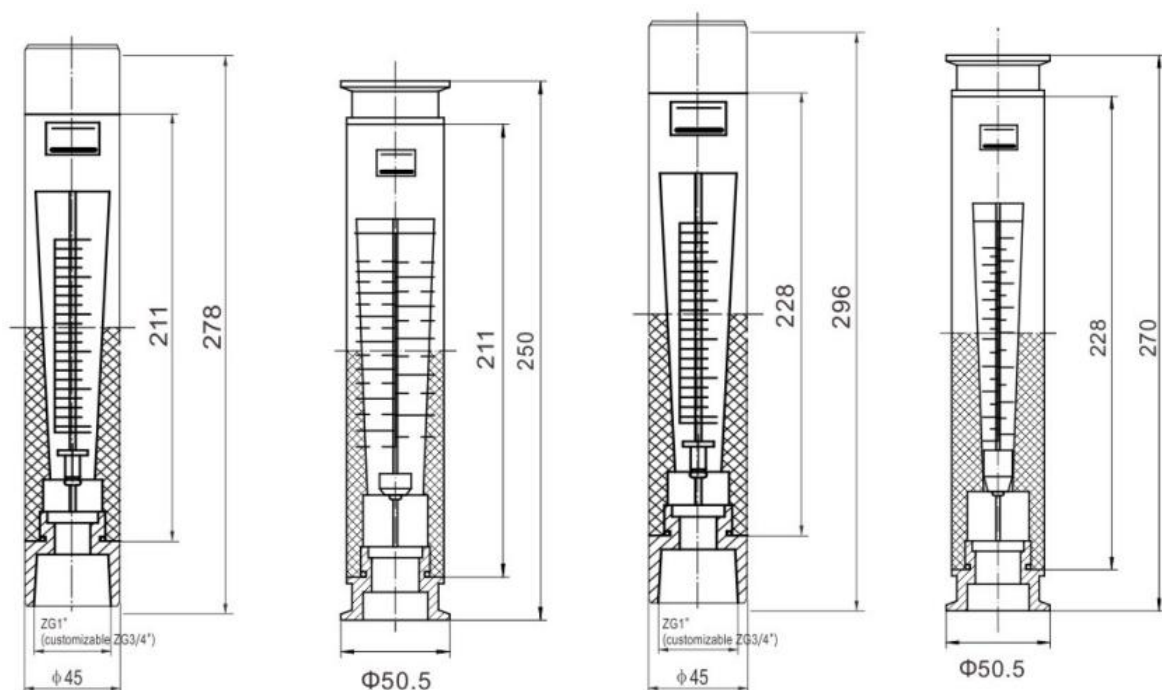
3.3 ABDT-LZT-25 Series Piping Type Flowmeter

Model	Measuring range	Medium	Remarks
ABDT-LZT-2510G	1-10GPM/5-35LPM	Water	Circular
ABDT-LZT-2516G	2-16GPM/10-60LPM		
ABDT-LZT-2520G	2-20GPM/10-70LPM		
ABDT-LZT-2530G	3-30GPM/12-120LPM		
ABDT-LZT-2535G	5-35GPM/30-130LPM		
ABDT-LZT-2540G	4-40GPM/15-150LPM		
ABDT-LZT-2510G-S	1-10GPM/5-35LPM		Square
ABDT-LZT-2516G-S	2-16GPM/10-60LPM		
ABDT-LZT-2520G-S	2-20GPM/10-70LPM		

Notes: ABDT-LZT-25 Series piping type flowmeter's connection type can also replaced with clamp. Add -K after normal model when order.

Optional clamp size	Φ 50.5
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Dimensions Diagrams(mm)



ABDT-LZT-25 □□ G

ABDT-LZT-25 □□ G-K

ABDT-LZT-25 □□ G-S

ABDT-LZT-25 □□ G-S-K

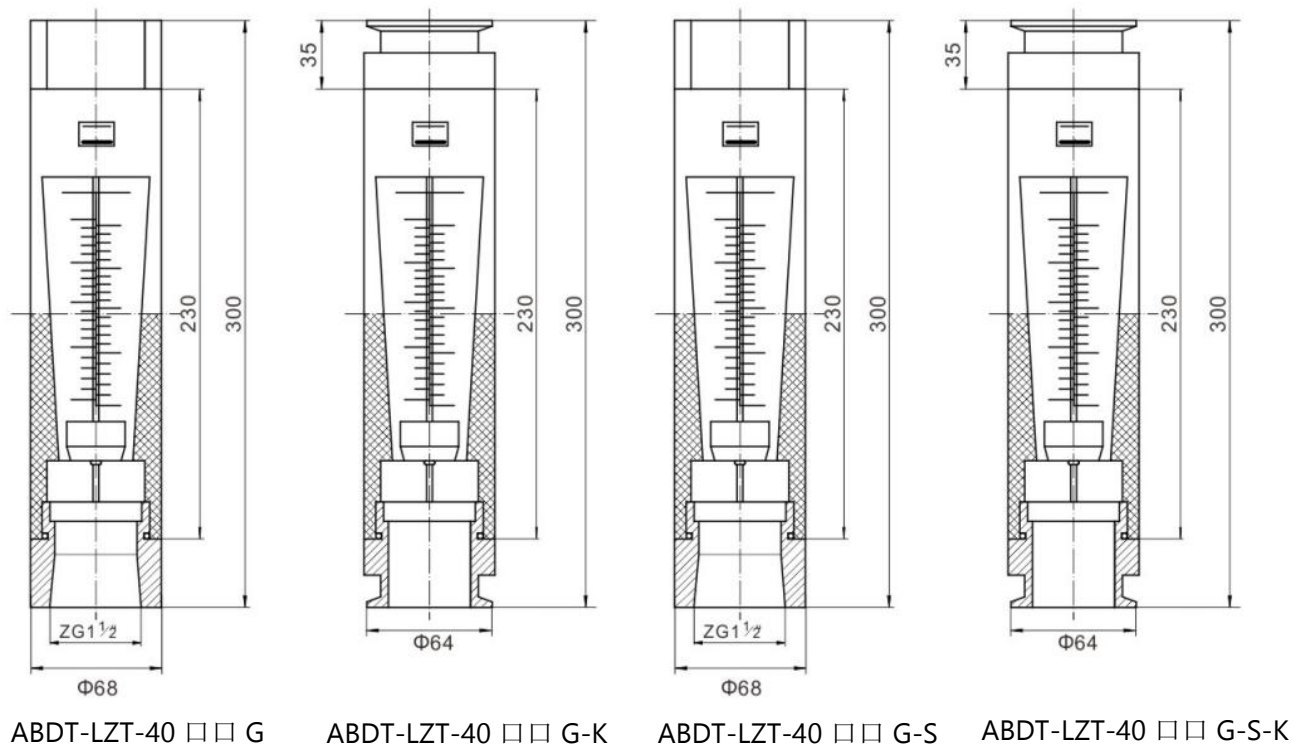
3.4 ABDT-LZT-40 Series Piping Type Flowmeter

Model	Measuring range	Medium	Remarks
ABDT-LZT-4004G	4-40GPM/15-150LPM	Water	Circular
ABDT-LZT-4006G	6-60GPM/20-240LPM		
ABDT-LZT-4008G	8-80GPM/30-300LPM		
ABDT-LZT-4010G	10-100GPM/50-350LPM		
ABDT-LZT-4004G-S	4-40GPM/15-150LPM		Square
ABDT-LZT-4006G-S	6-60GPM/20-240LPM		
ABDT-LZT-4008G-S	8-80GPM/30-300LPM		
ABDT-LZT-4010G-S	10-100GPM/50-350LPM		

Notes: ABDT-LZT-40 Series Piping Type flowmeter's connection joints can also be replaced with clamp. Add -K after normal item code when order.

Optional clamp size	Conventional $\Phi 64$ (customizable $\Phi 50.5, \Phi 77$)
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Dimensions Diagrams(mm)



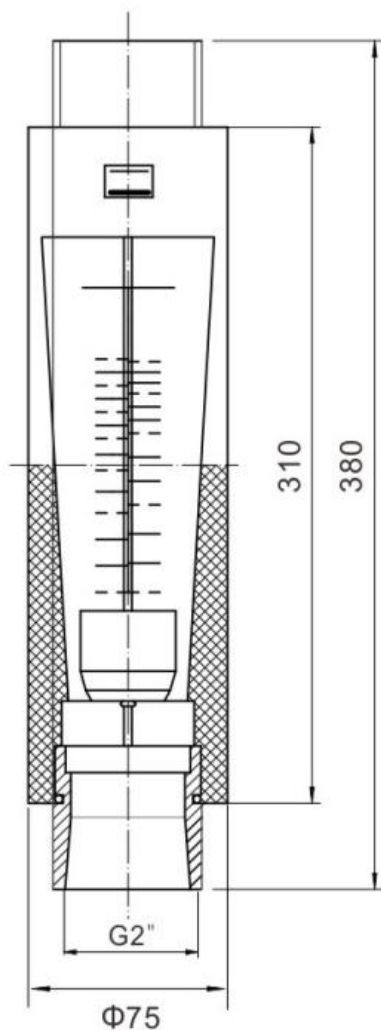
3.5 ABDT-LZT-50 Series Piping Type Flowmeter

Model	Measuring range	Medium	Remarks
ABDT-LZT-5015G	30-150GPM/100-600LPM	Water	Circular
ABDT-LZT-5020G	40-200GPM/150-750LPM		

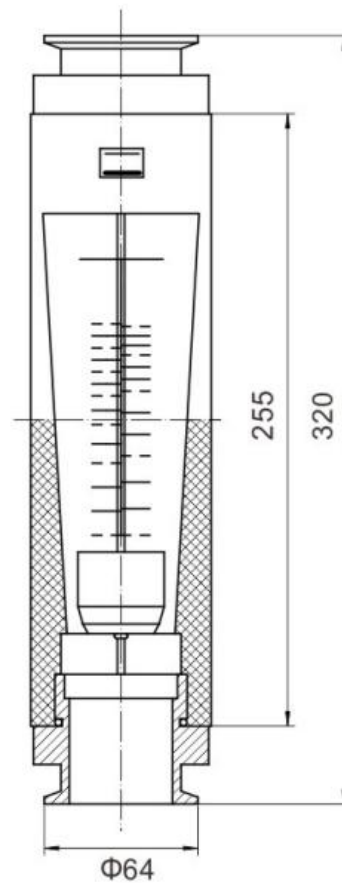
Notes: ABDT-LZT-50 Series Piping Type Rotameter's connection joint can also be replaced with clamp. Add -K after normal model when order.

Optional clamp size	Conventional $\Phi 77$ (customizable $\Phi 64$)
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Dimensions Diagrams(mm)



ABDT-LZT-50 □□ G



ABDT-LZT-50 □□ G-K

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