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**Panel(Piping)
Type Flowmeter**

**NINGBO DONGCHI
MEASURING & CONTROL CO.,LTD.**

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Panel(Piping) Type Flowmeter



Overview

Panel(Piping)Type flowmeter is also called the variable-area flowmeter. The material of measuring tube is made of High-quality and transparent lucite (acrylic). This flowmeter is mainly applied to form a complete set in clean water treatment and environmental protection projects. It also can be used in chemical industry, petroleum, light industry, medicine, fertilizer, food, papermaking and scientific research, etc., to measure the single-phase non-pulsing flow of liquid and gas.

Panel(Piping)type flowmeter has the characteristics of high transparency, reading is intuitive, unbreakable, light weight, long-life, easily installed and serviced ect.



Technical Parameters

Normal flowrate 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	±4%FS ±6%FS										
Repeatability	±0.25%FS										
Maximum pressure	1MPa/150psig(Higher pressure resistance needs to be customized)										
Maximum temperature	80℃/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										

※ Our company can make rotor flowmeter according to customer's requirements, with different medium or flow range or different connection size and material. We can also fix brand or sample processing according to customer's requirements.

Panel(Piping) Type Flowmeter

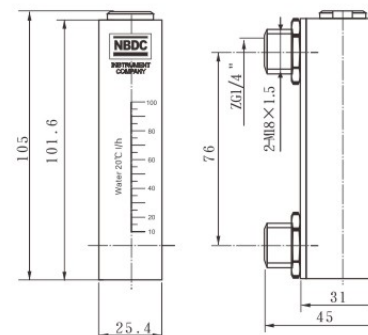


LZT-8 Series Panel type Flowmeter

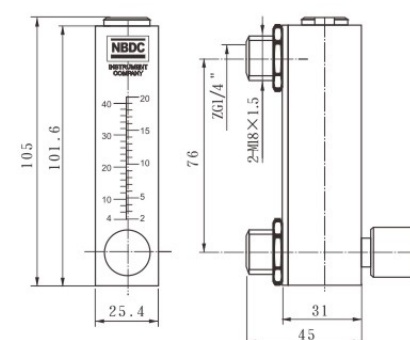
Model	Measuring range	Medium	Remarks
LZT-0802M	2~20l/h	Water	Without valve Special Acrylic
LZT-0804M	4~40l/h		
LZT-0806M	6~60l/h		
LZT-0810M	10~100l/h		With valve Special Acrylic
LZT-0802M-V	2~20l/h		
LZT-0804M-V	4~40l/h		
LZT-0806M-V	6~60l/h	Air	With valve Special Acrylic
LZT-0810M-V	10~100l/h		
LZT-08A001M-V	50-500ml/min		
LZT-08A002M-V	0.1~1LPM		
LZT-08A004M-V	0.3~3LPM		
LZT-08A01M-V	1~10SCFH/0.5~5LPM		
LZT-08A02M-V	2~20SCFH/1~10LPM		
LZT-08A04M-V	4~40SCFH/2~20LPM		
LZT-08A08M-V	8~80SCFH/4~40LPM		
LZT-08A10M-V	10~100SCFH/5~50LPM		
LZT-08A20M-V	20~200SCFH/10~100LPM	LZT-08M-V-T	
LZT-08M-V-T	0.4-5LPM 0.1-1.5LPM 2-30LPM 4-50LPM		



Dimensions(mm)



LZT-08□□M



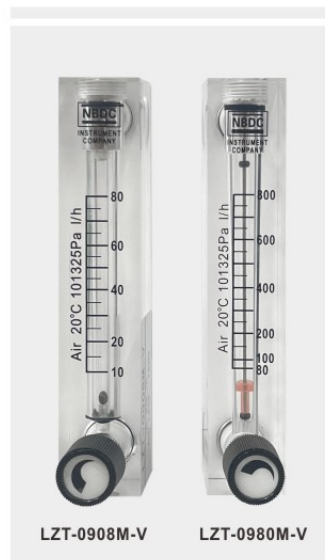
LZT-08A□□M-V
LZT-08□□M-V

Panel(Piping) Type Flowmeter

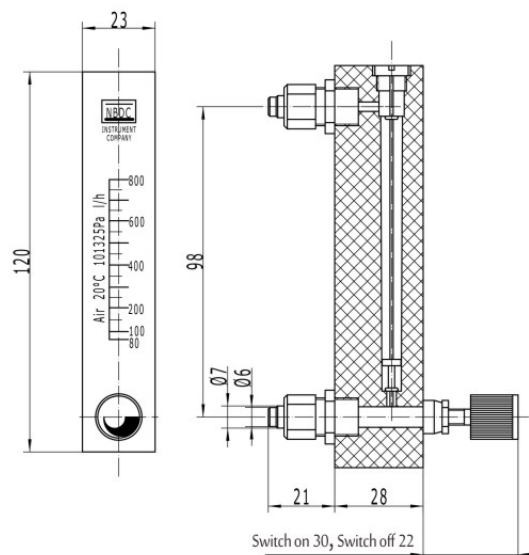


LZT-09 Series Panel type Flowmeter

Model	Measuring range	Medium	Remarks
LZT-0908M-V	10-80L/h	Air	With valve
LZT-0916M-V	20-160L/h		
LZT-0930M-V	30-300L/h		
LZT-0980M-V	80-800L/h		



Dimensions(mm)



Panel(Piping) Type Flowmeter

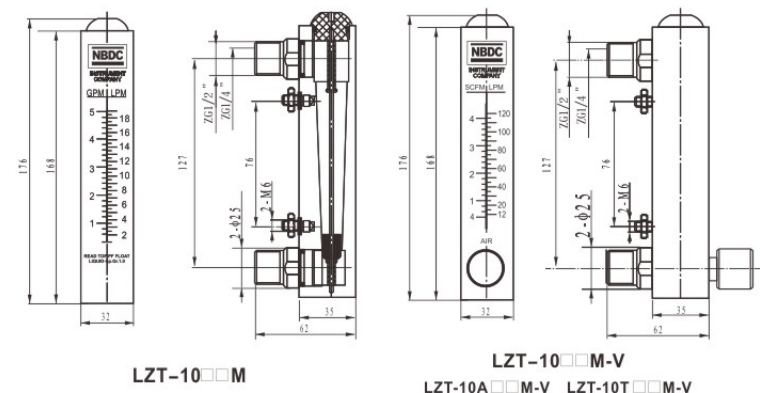


LZT-10 Series Panel type Flowmeter

Model	Measuring range	Medium	Remarks
LZT-10005M	0.05~0.5GPM/0.2~2LPM	Water	Without valve
LZT-1001M	0.1~1GPM/0.5~4LPM		
LZT-1002M	0.2~2GPM/1~7LPM		
LZT-1003M	0.3~3GPM/1~11LPM		
LZT-1005M	0.5~5GPM/2~18LPM		
LZT-10005M-V	0.05~0.5GPM/0.2~2LPM	Water	With valve
LZT-1001M-V	0.1~1GPM/0.5~4LPM		
LZT-1002M-V	0.2~2GPM/1~8LPM		
LZT-1003M-V	0.3~3GPM/1~11LPM		
LZT-1005M-V	1.0~5GPM/2~18LPM		
LZT-1010M/T-V	10~100L/h	Air	With valve
LZT-1016M/T-V	16~160L/h		
LZT-10A04M-V	0.4~4SCFM/12~120LPM		
LZT-10A08M-V	1~8SCFM/24~240LPM		
LZT-10A12M-V	1.2~12SCFM/36~360LPM		
LZT-10A16M-V	1.6~16SCFM/48~480LPM		
LZT-10A24M-V	2.4~24SCFM/72~720LPM		
LZT-10T03M-V	0.3~3m³/h		
LZT-10T04M-V	0.4~4m³/h		
LZT-10T06M-V	0.6~6m³/h		
LZT-10T10M-V	1~10m³/h		
LZT-10T16M-V	1.6~16m³/h		
LZT-10T25M-V	2.5~25m³/h		



Dimensions(mm)



Panel(Piping) Type Flowmeter



LZT-10 Series Piping type Flowmeter

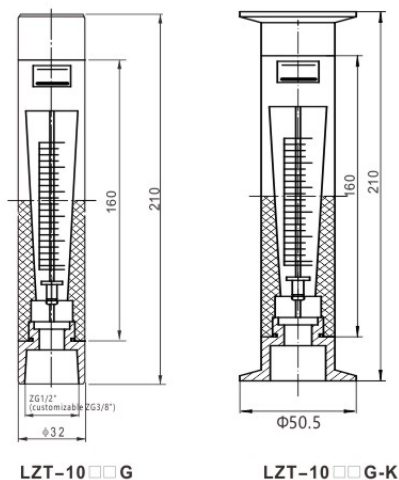
Model	Measuring range	Medium	Remarks
LZT-10005G	0.05~0.5GPM/0.2~2LPM	Water	Circular
LZT-1001G	0.1~1GPM/0.4~4LPM		
LZT-1002G	0.2~2GPM/1~7LPM		
LZT-1003G	0.3~3GPM/1~11LPM		
LZT-1005G	0.5~5GPM/2~18LPM		

Note: the above flow meter connection joints can be replaced with clamp, add -K after normal model

Optional clamp size	Φ50.5
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Dimensions(mm)



LZT-10□□G

LZT-10□□G-K

Panel(Piping) Type Flowmeter



LZT-15 Series Piping type Flowmeter

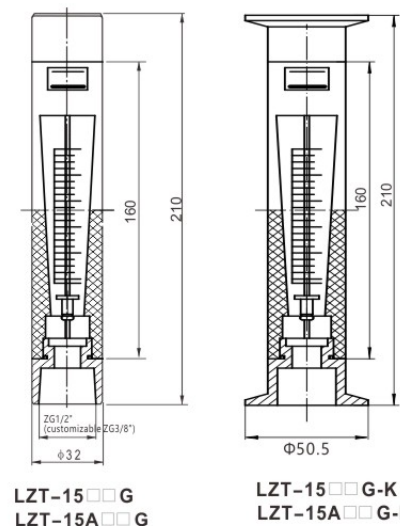
Model	Measuring range	Medium	Remarks
LZT-1510G	10~100L/h	Water	
LZT-1516G	16~160L/h		
LZT-15A03G	0.3~3m³/h	Air	Circular
LZT-15A04G	0.4~4m³/h		
LZT-15A06G	0.6~6m³/h		
LZT-15A08G	0.8~8m³/h		
LZT-15A16G	1.6~16m³/h		
LZT-15A25G	2.5~25m³/h		
LZT-15A40G	4~40m³/h		

Note: the above flow meter connection joints can be replaced with clamp, add -K after normal model

Optional clamp size	Φ50.5
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Dimensions(mm)



LZT-15□□G
LZT-15A□□G

LZT-15□□G-K
LZT-15A□□G-K

Panel(Piping) Type Flowmeter



LZT-25 Series Piping type Flowmeter

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

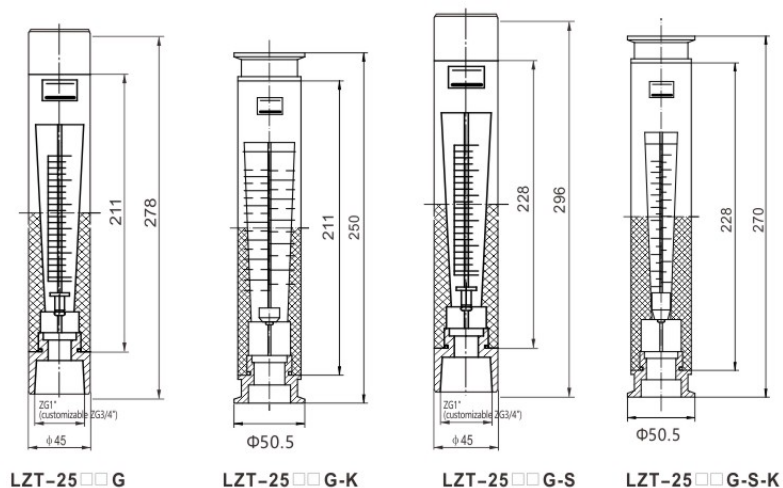
Note: the above flow meter connection joints can be replaced with clamp, add -K after normal model

Optional clamp size	Φ50.5
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LZT-2510G LZT-2510G-S LZT-2510G-K

Dimensions(mm)



LZT-2510G LZT-2510G-K LZT-2510G-S LZT-2510G-S-K

Panel(Piping) Type Flowmeter

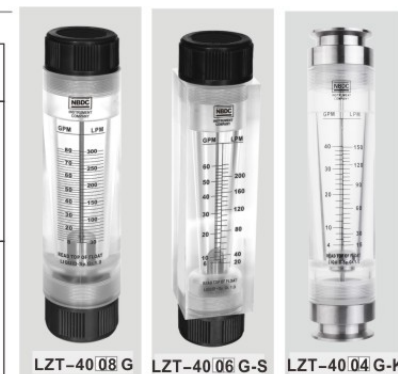


LZT-40 Series Piping type Flowmeter

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

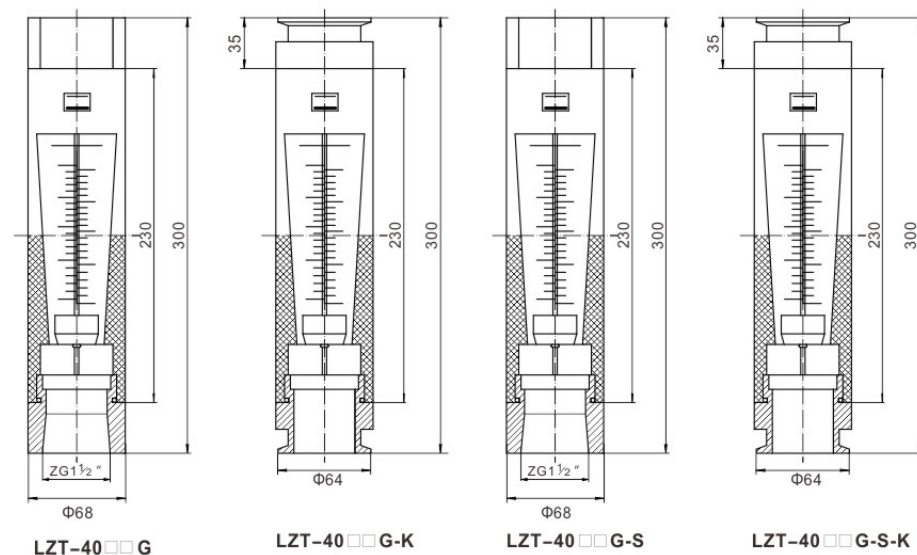
Note: the above flow meter connection joints can be replaced with clamp, add -K after normal model

Optional clamp size	Conventional Φ64 (customizable Φ50.5, Φ77)
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LZT-4008G LZT-4006G-S LZT-4004G-K

Dimensions(mm)



LZT-4004G LZT-4004G-K LZT-4004G-S LZT-4004G-S-K

Panel(Piping) Type Flowmeter



LZT-50 Series Piping type Flowmeter

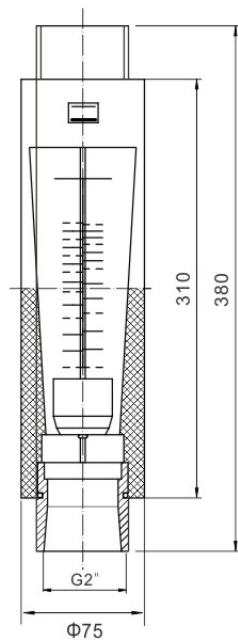
Model	Measuring range	Medium	Remarks
LZT-5015G	30~150GPM/100~600LPM	Water	Circular
LZT-5020G	40~200GPM/150~750LPM		

Note: the above flow meter connection joints can be replaced with clamp, add -K after normal model

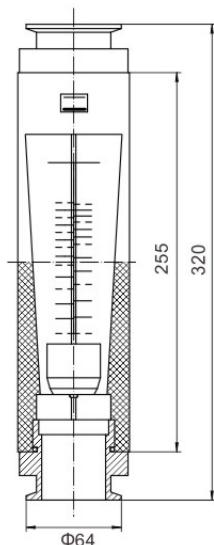
Optional clamp size	Conventional Φ77 (customizable Φ64)
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Dimensions(mm)



LZT-50□□G



LZT-50□□G-K

Plastic Tube Rotameter



Long tube type

Model		Measuring range	Medium	Remarks
LZT-15S06L		6-60L/h	Water	Without Guide rod
LZT-15S10L		10-100L/h		
LZT-15S16L		16-160L/h		
LZT-15S25L		25-250L/h		
LZT-15S40L		40-400L/h		
LZT-15S60L		60-600L/h		
LZT-15S100L		100-1000L/h		
LZT-25S06L		60-600L/h		
LZT-25S10L		0.1-1M³/h		
LZT-25S16L		0.16-1.6M³/h		
LZT-25S25L		0.25-2.5M³/h		
LZT-25S30L		0.3-3M³/h		
LZT-40S04L		0.4-4L/h		Without Guide rod
LZT-40S06L		0.6-6M³/h		
LZT-50S04L		0.4-4M³/h		
LZT-50S06L		0.6-6M³/h		
LZT-50S10L		1-10M³/h		
LZT-50S16L		1.6-16M³/h	With Guide rod	
LZT-100 LZT-125 LZT-150	S06L/F	12-60M³/h	Flange connection With Guide rod	
	S09L/F	14-90M³/h		
	S12L/F	18-120M³/h		
	S15L/F	20-150M³/h		
	S18L/F	25-180M³/h		
	S20L/F	22-200M³/h		



LZT-15S40L

LZT-50S06L



LZT-100S09L/F

Plastic Tube Rotameter



Short tube type

Model	Measuring range	Medium	Remarks
LZT-15S06S	6-60L/h	Water	Without Guide rod
LZT-15S10S	10-100L/h		
LZT-15S16S	16-160L/h		
LZT-15S25S	25-250L/h		
LZT-15S40S	40-400L/h		
LZT-15S60S	60-600L/h		
LZT-15S100S	100-1000L/h		
LZT-25S06S	60-600L/h		
LZT-25S10S	0.1-1m³/h		
LZT-25S16S	0.16-1.6m³/h		
LZT-25S25S	0.25-2.5m³/h		
LZT-25S30S	0.3-3m³/h		
LZT-32S04S	0.4-4m³/h		
LZT-32S06S	0.6-6m³/h		
LZT-32S10S	1-10m³/h		
LZT-40S06S	0.6-6m³/h		
LZT-40S10S	1-10m³/h		
LZT-40S16S	1.6-16m³/h		
LZT-50S06S	0.6-6m³/h		
LZT-50S10S	1-10m³/h		
LZT-50S16S	1.6-16m³/h		
LZT-65S16S	1.6-16m³/h		
LZT-65S25S	5-25m³/h		
LZT-65S40S	8-40m³/h		
LZT-65S60S	12-60m³/h		
LZT-80S25S/F	5-25m³/h	Flange connection With Guide rod	
LZT-80S40S/F	8-40m³/h		
LZT-80S60S/F	12-60m³/h		

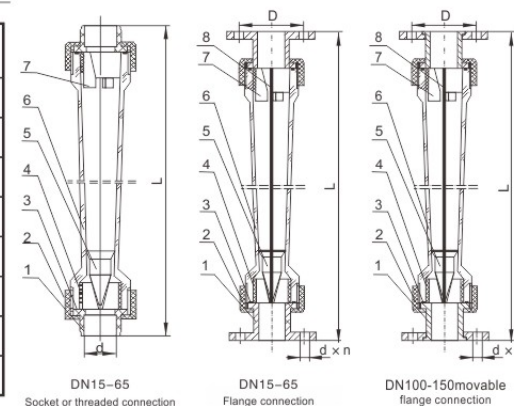


Plastic Tube Rotameter



Parts and material

Number	Name	Material
1	Connection tube	UPVC
2	Nut	ABS
3	O -ring	NBR
4	Bottom stop shaft	PE
5	Floater	ABS
6	Cone tube	AS
7	Top stop shaft	PE
8	Guide rod	304ss or 316ss



Dimensions(mm)

Nominal diameter (mm)	Long tube size			Short tube size			Flange connection size			
	L	d		L	d		L		D	d×n
		Sinking insert	Thread		Sinking insert	Thread	Long tube	Short tube		
15	280	φ20	G1/2 "	200	φ20	G1/2 "	330	250	65	14×4
25	380	φ32	G3/4 "	226	φ32	G3/4 "	445	291	85	14×4
32	—	—	—	288	φ40	G1 "	—	351	100	18×4
40	430	φ50	—	341	φ50	—	505	416	110	18×4
50	435	φ63	G1-1/2 "	341	φ63	G1-1/2 "	519	430	125	18×4
65	—	—	—	430	φ75	G2 "	—	522	145	18×4
80	—	—	—	—	—	—	540	—	160	18×8
100	—	—	—	—	—	—	555	—	180	18×8
125	—	—	—	—	—	—	555	—	210	18×8
150	—	—	—	—	—	—	555	—	240	22×8

For Order:

- LZT- S L: Long tube type
LZT- S S: Short tube type
- Connection: /F : Flange type (DN15-65 can also be used for PVC flange connection)
/N : Thread
/□ : Sinking insert
(You can customize the PVC tube suitable for NASI or JIS standards.)
- Special requirements:
For anticorrosive type (guide rod lining F46), add suffix / F46
If it has upper and lower limit alarm function, add suffix / K1 (lower limit), K2 (upper limit)
- DN15 series is usually equipped with 4 parts PVC pipe or 6 parts PVC pipe

Plastic Tube Rotameter



Overview

K1 (lower limit alarm) and K2 (upper limit alarm) flow limit switches can be at the minimum,

The maximum or any intermediate flow value gives an alarm signal. This product is installed in LZS series plastic pipe

The flowmeter measures the dovetail guide when the float (built-in permanent magnet) reaches or exceeds the pole opening

When the position is closed, the signal is emitted. The internal contacts are turned on or off. As a result of

With the new magnetic induction technology, the float is no longer used in monostable or bistable situations as in the past.

K1 lower limit alarm

When the magnetic float is in (or below) the limit switch set position, the contact is closed. When the magnetic float is higher than the set position of limit switch, the contact opens.

K2 upper limit alarm

When the magnetic float is in (or above) the limit switch set position, the contact is closed. When the magnetic float is lower than the set position of limit switch, the contact opens.



Technical Parameters

1、Insulation resistance $> 10^9 \Omega$

2、Working voltage: max.DC24V/AC24V,
Working current: max.0.3A

3、working temperature: 0-55°C

4、Protection level: IP65

5、Hysteresis (on and off positions): 4mm

6、Constant current when switching: max.DC 0.1A,
Interrupt power: max.1VA

7、Overall dimensions: 45X20X45mm

LZS series main parts:

Cone tube material AS, float material ABS.

Intubation or internal thread connection

material PVC or nylon PA6 or PA66

working pressure: $\leq 0.6 \text{ MPa}$

working temperature : 0-60°C

accuracy: $\pm 5\% \text{ FS}$

Apply

It is mainly used in LZT-S series plastic tube rotameter.