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LZDZ Auto Dispensing Flow Meter



LZDZ Series Auto Batch Control Flow Meter is designed by our company for liquids control and precise measurement (hereafter we call LZDZ)...

Description

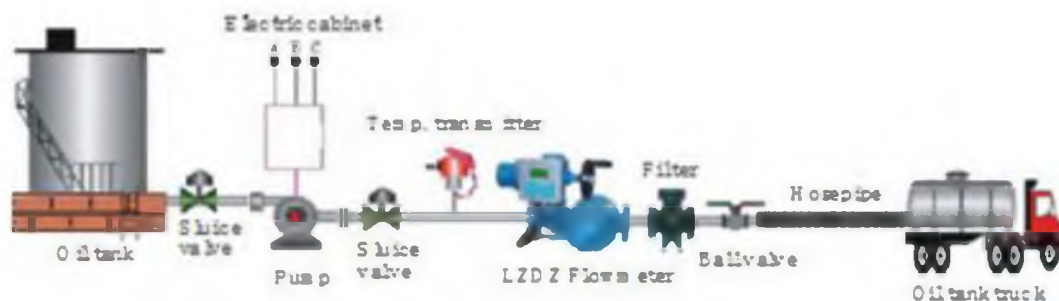
- Introduction
- Specification
- Installation
- Outline Dimension
- Model Selection

General

LZDZ Series Auto Batch Control Flow Meter is designed by our company for liquids control and precise measurement (hereafter we call LZDZ). LZDZ has the feature of compact structure, easy operation and stable performance. According to the preset flow value, LZDZ can control the process flow automatically and measure it precisely. In loading/unloading system, LZDZ can detect many signals such as electrostatic grounding, high level alarm and then operate automatically and safely. Through remote communication, LZDZ can also compose the Collecting-Distributing Quantitative Filling Control System with upper computer for rationing oil, which includes the functions of monitor, query and printing.

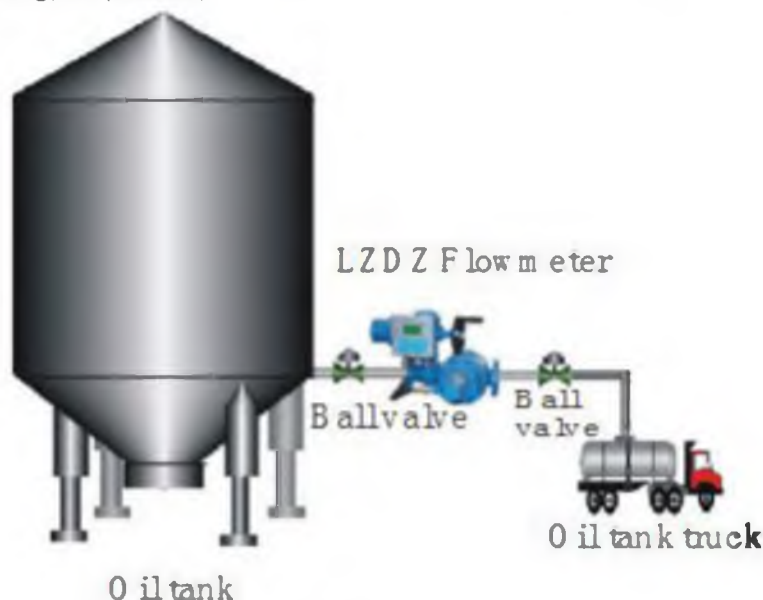


Unloading (See picture 1)



Picture 1

Filing(See picture 2)



Picture 2

Main Specifications

1. Accuracy: $\pm 0.15\%$, $\pm 0.25\%$;
2. DN: 50mm, 80mm, 100mm ;
3. PN: 1.6MPa, 2.5MPa, 4.0MPa ;
4. 4 circuits ON/OFF input signal and 1 circuit pulse input signal ;
5. 6 circuits passive contact signal input, capability 5A(AC220V) ;
6. RS485 interface, Baud rate: 1200, 2400, 4800, 9600, 19200 ;
7. Max. display value: 999999.99 ; Control range: 1~999999.99 ; Initial lead range: 0~9999.99 ;
8. Batch: (1~99)times, interval time: (1~99)s ;
9. Pulse equivalent range: 0.0001~99.9999 ; Density range: 0.0001~99.9999 ;
10. liquid viscosity: (0~2000)mPa s ;
11. Ambient temperature: (-20~+55) $^{\circ}\text{C}$;
12. Working temperature: $\leq +130^{\circ}\text{C}$;
13. Explosion proof: Exd II BT4 ;
14. Power supply: 220VAC $\pm 10\%$, 50Hz (or customize as 24VDC) ; Auto save data when power is off ;
15. Electric interface: G3/4 one power line and one signal line.
16. Manual operation makes commissioning and convenient emergency assistance easy.(DO NOT OPEN THE COVER WHEN POWER IS ON)
17. Flow range:

Table 1

DN(mm)	Accuracy	
	$\pm 0.15\%$	$\pm 0.25\%(\text{m}^3/\text{h})$
50	12~36 m^3/h	7.2~36 m^3/h
80	26~80 m^3/h	16~80 m^3/h
100	34~100 m^3/h	20~100 m^3/h

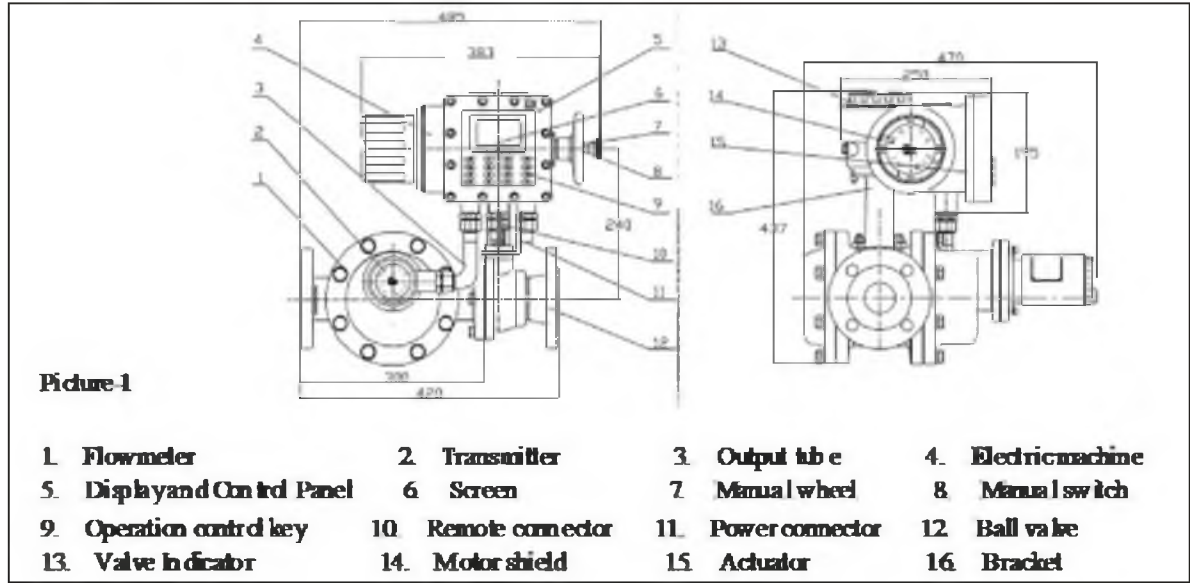
Structure

LZDZ is made up with flowmeter, valve and controller (shown as Picture 1) and can be installed directly in the loading/unloading pipeline through flanges to control the measurement automatically.

1. Flowmeter

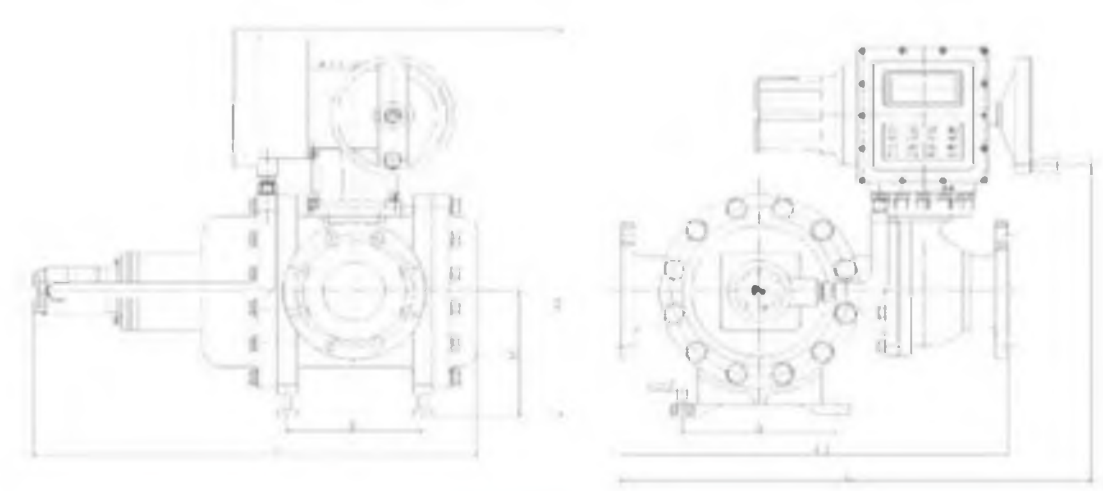
Adopt our LSZ Series Double Rotator flowmeter or other kind of flowmeter ;

- 2. Valve mechanism
Adopt electric operator and ball valve.
- 3. Controller
Adopt single chip, array LCD and 15*10 field key operations.



Installation

- 1. Installation Environment
Please confirm the environment is suitable for the performance marked on the nameplates before install the LZDZ in hazardous area (except coal mine).
 - 2. Location
LZDZ can only be installed horizontally and meanwhile should be kept the pipeline for measurement full of the process liquid.
 - 3. Direction
Please install LZDZ according to the correspondence between Flow Arrow direction marked on body and the Flow Direction in the pipeline or indicate the flow direction and operation location before placing order.
 - 4. Installation Instruction.
Please mount the two flanges of LZDZ into the pipeline and meanwhile keep some space for operation panel which should be convenient by the operators.
- Outline dimension(Shown as the following drawing)
- Outline dimension** (See picture 4 and table 2)



Picture 4

Table 2

DN (mm)	Flange Distance L1	Overall Length L	Overall Width H	Overall Height H1	Central Height M	Installation hole A*B	Bolthole dimension n-φ
50	420	560	480	420	120		
80	550	700	700	600	200		
100	620	750	720	600	210	250*200	4-φ20

Model Selection

Model		1	2	3	4	5	6	7	8	9	10	Instructions
		DN	Flow meter	Electric Shield	Temp.	Structure	PN (MPa)	Comm u nication	Signal Output	IC Card	Accuracy	
LZDZ	—											Auto Batch Control Flow meter
		040										40mm
		050										50mm
		080										80mm
		100										100mm
		LSZ										Double Rotator Flow meter
		LBYN										Scrape Board Flow meter
		LZYN										Coriolis Mass Flow meter
			P									General type
			B									Anti-Ex (Exd IIB T4)
				1								Medium Temp. (-20~+80)°C
				2								Medium Temp. (-20~-120)°C
					G							Basic type (Cast steel)
					S							Stainless Steel type (SS34)
						1.6						1.6MPa
						2.5						2.5MPa
						4.0						4.0MPa
						6.4						6.4MPa
							R2					RS232
							R4					RS485
								F				Pulse
								I				(4~20) mA
								N				None
									D			With IC Card
									N			Without IC Card
										0.15		0.15%
										0.25		0.25%

LZDZ

0 1 2 3 4 5 6 7 8 9 10

0: LZDZ Series Auto Batch Control Flow Meter

1: Size: 04040 mm. 05050 mm. 08080 mm. 100100 mm

2: Flowmeter: LSZLSZ Series Double Rotator Flowmeter; LBYNLBYN Series Scrape Board Flowmeter

3: Electrical protection: PGeneral BExplosion proof: Exd IIB T4

4: Working Temperature: 1(-20~+80)°C. 2(-20~+120)°C

5: Material type: GCast steel SSS304

6: Nominal Pressure: 1.61.6 MPa. 2.52.5 MPa. 4.04.0 MPa. 6.46.4 MPa

7: Communication Type: R2RS232 R4RS485

8: Signal output: FPulse I(4~20)mA

9: IC Card: DWith IC card NWWithout IC card

10: Accuracy: 0150.15% 0250.25%

Sample: LZDZ-050LSZ B1G1.6R4FD025

LDJ Series Auto Batch Control Flow Meter; Size: 50mm; Double Rotator Flowmeter; Explosion proof; Working temperature(-20~+80)°C; Cast steel; Nominal Pressure: 1.6MPa; Communication RS485. Pulse output; With IC card and accuracy of 0.25%.

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