

WIRATAMA POSITIVE DISPLACEMENT FLOW METER CATALOG

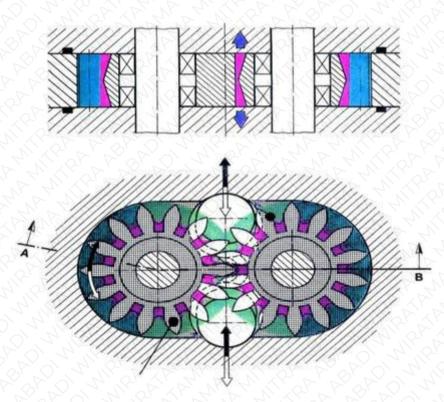


General Overview

It is a new type of volumetric flowmeter that is also called fuda flowmeter. It is used to precisely and continuously or discontinuously measure the flow or instant flow of liquid in the pipeline. It is applicable to measurement of flow of media whose viscosity is relatively high, such as heavy oil, polyving alkohol, resin and so on. Micro flow can also be measured precisely.

Operating principle and structure

There is a pair of gears that intermesh as rotor inside the cavity of the flowmeter. The two gears and the cavity can respectively constitute a fixed volume that is called standard volume. The flow is measured out by calculating the number going through this standard volume during a period of time.



Structure principle graph of gear flowmeter

Features

- Flow measurement has nothing to do with flow condition of fluid.
- For media whose viscosity is larger, the leakage rate of fluid leaking from the gear and measuring gap is smaller. Therefore, the larger the viscosity of media measured is, the smaller the leakage error is, the more benefit it is to measurement.
- The gear flowmeter features high measuring precision. It is applicable to flow measurement of media whose viscosity is high. However, it is not applicable to fluid containing solid particles. Filter installation is needed for this condition. Measurement error is also caused if the media is mixed up with gas.





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- It features small volume and light weight and makes low vibration noise when operating. It can measure fluid whose viscosity is up to 10,000pa.s. The measuring precision is 0.5 grade and 0.2 grade. The widest measuring range can be up to 50: 1.
- There are many types such as universal type, high pressure type, food type and so on. They are applicable to micro flow measurement of various kinds of cleaning liquid.

Technical Parameters

(I) Instrument parameter

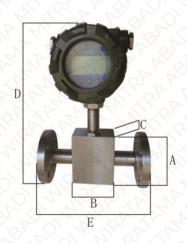
Туре	Flow range L/h	Max flow	Pressure rating Mpa	Material	Connection	Media viscosity MPa.s	Temperature °C
	0.5 grade	range					
R29-I	10~300	10~600	EN VE		Flange		S C C C C C C C C C C C C C C C C C C C
R29-II	20~600	20~1000	1.6 2.5 4.0 6.3 10.0 304 316				
R29-III	50~1000	50~1500		Thread	0~10000	0~200	
R29-IV	100~2000	100~3000	25 42	1/20.0/2	Clamp		
R29-V	200~5000	200~5500					

(II) Using environment

Temperature -20°C To +50°C humidity 5% to 95% air pressure 85kpa to 106kpa

- (III) Electric indicator
- 1. Power supply: internal power supply is 3.6V lithium battery with power dissipation of less than 1mw. Exterior power supply is 12VDC~24VDC with power dissipation of less than 2w.
- 2. Output mode: pulse, current, RS485Mudbus, Hart agreement and so on.

Boundary dimension



1 Alls	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
R29-I	80	70	40	250	220
R29-II	80	70	60	250	220
R29-III	100	90	60	270	220
R29-IV	100	90	70	270	220



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Installing Way

At any direction. Straight pipes are unnecessary for the previous section. Filter installation is needed if there were impurities.



Type Code

Basis	1	2	3	PANANK	Note	
	Counter	Nominal pressure	Material	Degree of accuracy		
R29	STAN ST	NO SULL	27 P	PO 1 11 12 KI	Fuda-typed flowmeter	
		Zylv Ly	KP PY	RO NICE	I type	
BY CO	TIL OF	KR ZNE	4 MILLE	P P P P J J J J J	II type	
PRE		CP XPZ	L LI	P P P P P P	III type	
P'P'	IV	M. B. V.	KUP Z		IV type	
	V	171115E	X Z Z	LYNKS OF BOX	V type	
41/16	0.P P 01	1.6~42	8 K K	WE WILL END	Nominal pressure 1.6~42mpa	
PAN	KP PP	8/0)/1	C304	L'ENLE L'ILLE LE	Rotor is 304 stainless steel	
ZAP Z	MILL BY	P. B. D.	C316	STAND STANTS	Rotor is 316 stainless steel	
LP Y	L'ENTY	27 P BP	0 4	0.5	0.5 grade	



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