TECHNOLOGY

HOLYKELL®

FLOWMETER

•DATASHEET•

1. Pressure Measurement 2. Level Measurement 3. Temperature Measurement
4. Flow Measurement 5. Display & Control Instruments

HRF Roots Flow Meter

Product Introduction

Roots flow meter is used for pipeline liquid flow measurement of continuous or intermittent high-precision measurement instrumentation. It has high accuracy, good reliability, light weight, long life, easy installation etc. It is a typical positive displacement flow meter product. Roots Flow meter mainly by the measurement cavity, sealing the composition of the coupling and counters. The instructions can be cumulative and instantaneous flow of traffic, coupled with letters intelligent control device and flow meter, can get remote measurement and control.

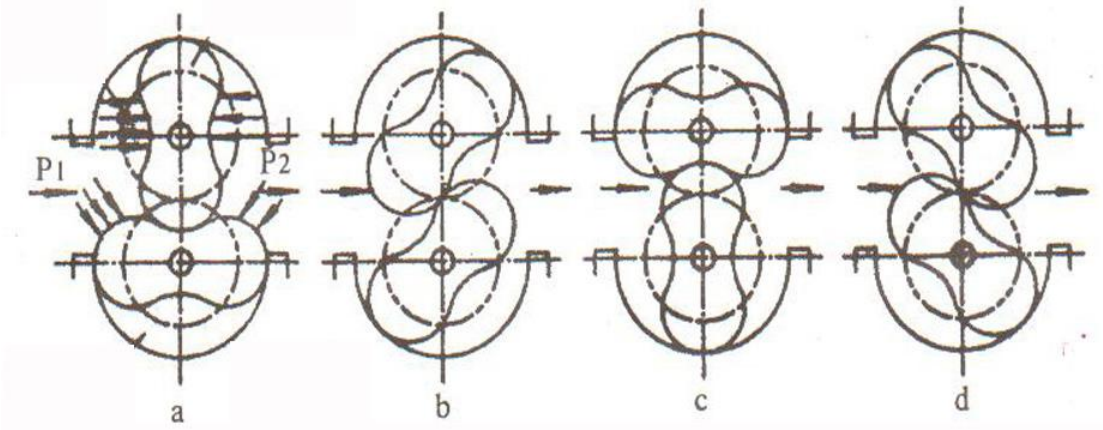
Applications

It widely used in petroleum, chemical, electric power, metallurgy, transportation, food processing, medicine, defense, commerce and trade sectors such as oil and petroleum products, chemical solutions and other fluids accurate measurement.

Working Principle

When the measured liquid flowing through the measuring chamber when the pressure in the formation of the inlet and outlet meter, waist-round under the impetus of pressure in the second rotation. At the same time fixed on the waist by a pair of drive axle on the gear, there are two waist-round to maintain a continuous rotation. With the waist wheel rotation, the liquid is continuously discharged through the metering chamber flow meter. Convection over the liquid for each volume is four times the volume of metering chamber. Through the sealing coupling, deceleration institutions, after slowing down the rotation number passed to the counter, counters that the instantaneous direction of liquid flow and cumulative flow.

Counter in the installation of devices that have become with pulse transmitter. And display instruments or computer systems accessories, and can be get Remote (quantitative, cumulative, instantaneous and other functions) automatic measurement and control.



Specification

Parameter	Specification
Working pressure（MPa）	0.6，1.0，1.6，2.5，4.0
Accuracy	0.5, 0.2
Temperature（℃）	-10~60

Flow Range（m^3/h）

Diameter(mm)	Liquid viscosity 2.0~150mpa.s	Liquid viscosity 0.6~2mpa.s	Liquid viscosity 2.0~150mpa.s	Liquid viscosity 0.6~2mpa.s
25	0.6~6	1.2~6	1.2~6	2~6
40	1.6~16	3.2~16	3.2~16	5.3~16
50	2.5~25	5~25	5~25	8.3~25
80	6~60	12~60	12~60	20~60
100	10~100	20~100	20~100	33.3~100
150	40~200	40~200	100~200	66.7~200
Accuracy	0.5		0.2	

Main parts and materials combinations

Materials / Parts	AL			EL				LL		
	Iron	Aluminum	Stainless	Cast	Aluminum	Stainless	Iron	Iron	Aluminum	Stainless
shell	☆			☆				☆		
rotor		☆			☆			☆		
cover	☆						☆		☆	
Rotor shaft			☆			☆				☆
Bearing			☆			☆				☆

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