



LG Series Throttle Orifice Plate Flow meters



Features

- Easy Operation and Maintenance
- Cost-effective, High Reliability, High Accuracy
- Compliance to World Market Requirements
- Medium: liquids, gas, gas-liquid two phase media

Description

The differential pressure flowmeter that consists of the throttling device and differential pressure gauge or differential pressure transmitter is most widely used for the measurement, control and regulation of liquid, gas and steam flows under single-phase conditions, as it features a simple structure, easy maintenance, reliable use, low cost, high accuracy, etc.

The technical conditions of the complete sets of corner, flange and D—D/2 tappings orifice plate, ISA1932 nozzle, long radius nozzle and venturi tube provided by our company meet the stipulations of the P.R.C. standard GB/T2624-93 and international standard ISO5167-91 , do not need to be calibrated individually. Special throttling devices other than the above complete sets of throttling devices should undergo individual calibration when there is a high demand for accuracy.

Application

This throttle flow meter can be widely used in

- Mining & Petroleum refining
- Chemical industry , Medical technology
- Power generation, Food & beverage plant
- Paper & Pulp industry, Energy & combined heat
- Purified water and waste water
- Oil & Gas products and transportation
- Dyeing and Coal and other industries.

Specifications

Corner tapping Standard orifice plate

Range: Nominal Diameter DN=(50~400)mm, Normal pressure PN=(0.01~2.5)MPa;

Flange tapping Standard orifice plate

Range: Nominal Diameter DN=(50~750)mm, Normal pressure PN=(0.01~2.5)MPa;

D-D1/2 tapping Standard orifice plate

Range: Nominal Diameter DN=(50~750)mm, Normal pressure PN=(0.01~20)MPa;

Bore tapping Standard orifice plate

Range: Nominal Diameter DN=(400~3000)mm, Normal pressure PN=(0.01~1.6)MPa;

High temperature & pressure throttling device

Range: Nominal Diameter DN=(15~300)mm, Normal pressure PN=(6.4~3.2)MPa;

Operating temperature T=(300~550)°C

Venturi tube

Range: Nominal Diameter DN=(500~2000)mm, Normal pressure PN=(0.01~2.5)MPa;

Averaging pitot tube flowmeter

Range: Nominal Diameter DN=(25~3000)mm, Normal pressure PN=(0.01~2.5)MPa;

Adopted standard

GB/T2624-93, ISO5176-1,2,3(1991)

Ordering Guide

WPLG Series Throttle Orifice Plate Flow meters

Model	Specification & Code	Description
WPL	G □ -□ □ -□□	Shanghai Wangyuan Flowmeter
Operation principle	G	Vortex flowmeter
Nominal diameter	XX	e.g. 25 is DN25; 400 is DN400; 1200 is DN1200
Throttling device	-A -B -C -D -E -F	Standard orifice plate Long radius nozzle Venturi tube Segmental orifice plate Eccentric orifice plate Averaging Pitot Tube
Pressure-tapping	H Z F J T	Ring chamber tapping Bore tapping Flange tapping D-D1/2 tapping Special tapping
Material	C F	Straight carbon steel Stainless Steel
Supply		1 Kit 2 Kit (expect mounting flange) 3 Flange, ring chamber or tapping flange, 4 Throttling device
Ordering Guide:		WPLG-DN25-AFF1

Throttling device specification

Throttling device model		Couple of tapping hole	Pair
Liquid		No. of Mounting position	
Transmitter model			
Max. flow rate	t/h	m ³ /h	Gas Flow State 1.value under working 2.value under 0°C, 0.1013MPa 3.value under 20°C, 0.1013MPa
Nom. Flow rate	t/h	m ³ /h	
Min. flow rate	t/h	m ³ /h	
Scale flow rate	t/h	m ³ /h	
Operating pressure	MPa (□ gauge □ absolute)		Local atmosphere Pa
Operating temperature	°C		Fluid density kg/m ³ under 1.2.3
Viscosity of fluid	mPa.S cP		Relative humidity %RH under 1.2.3
Differnetial pressure of design	kPa		Allowed pressure lose kPa
Pipe spec.	Φ	X	mm Pipe material
Flange standard			
Connecting	<input type="checkbox"/> Flange <input type="checkbox"/> Welding		
Mounting	<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> from top to bottom <input type="checkbox"/> From bottom to top↑		
Note	If medium is mixed gas, please provide volume percentage		

Accessory of Orifice plate flow meter

