

Gas Roots Flow Meter



Description

It is a positive displacement, rotary type gas meter designed for continuously measuring and indicating the accurate measurement of gas in a pipeline. Gas Roots flow meters are suitable for handling most types of clean, dry, common gases at either constant or varying flow rates. Meters of standard construction are not directly suitable for handling acetylene, biogas or sewage gas. Contact the factory for information on specially constructed meters made of materials directly compatible with these and other gases.

Application

For some gas industry business accounting which used in some fields, like, restaurant, hotels, gas pressure regulation station, civil boiler, etc... Also available to measure some gases like, propane, nitrogen and others which have not corrosive mediums.

Specification

Connection	DIN PN16
Accuracy	±1.5% of rate ±1.0% of rate
Condition	Fluid Temperature:-10...+60°C Ambient Temperature:-30...+60°C Relative Humidity:5%-90% RH Atmospheric Pressure:86...106Kpa
Power Supply	Main Power:24V DC Backup Battery:3.6V DC Lithium Battery
Power Consumption	<1W
Output	Pulse 4-20mA IC card Modbus RS485

Model Selection

Model	Suffix Code						Description
GR-	1	2	3	4	5	6	Gas Roots Flowmeter
Diameter	XXX						025: DN25 100: DN100 250: DN250
Flow Range	Q-XX						Refer to table
Converter Type		N					Basic Meter: Mechanical display without output Digital display; Temperature and pressure compensation; Pulse; 4-20mA; Optional: Modbus RS485; Control signal for IC card
		C					Digital Display; Automatic Temperature and pressure compensation Standard output: 4-20mA/ Pulse / Control signal for IC card Optional: Modbus RS485
		D					
Accuracy				10			±1.0% of rate
				15			±1.5% of rate
Pressure Rating					WP1		1.0 Mpa
					WP2		1.6 Mpa
Connection						DXX	D16: DIN PN16 Flange; D25: DIN PN25 Flange; DN40: DIN PN40 Flange...
						AXX	A15: ANSI 150# Flange; A30: ANSI 300# Flange; A60: ANSI 600# Flange...
						JXX	J10: JIS 10K Flange; J20: JIS 20K Flange; J40: JIS 40K Flange...

Flow Range

Diameter	Model	Start Rate	Max Flow Rate	Pressure Loss	Pressure Rate	Accuracy	Turndown Ratio	Body Material
		m³/h	m³/h	Pa	Mpa			
DN25	Q-16	0.6	16	120	1.0/1.6	1.5/1.0	20:1	Aluminum Alloy
	Q-20	0.6	20	130	1.0/1.6	1.5/1.0	20:1	
	Q-25	0.6	25	130	1.0/1.6	1.5/1.0	20:1	
DN40	Q-30	0.6	30	130	1.0/1.6	1.5/1.0	20:1	
	Q-40	0.6	40	180	1.0/1.6	1.5/1.0	30:1	
	Q-60	0.6	60	180	1.0/1.6	1.5/1.0	60:1	
DN50	Q-20	0.6	20	140	1.0/1.6	1.5/1.0	20:1	
	Q-25	0.6	25	140	1.0/1.6	1.5/1.0	20:1	
	Q-30	0.6	30	140	1.0/1.6	1.5/1.0	20:1	
	Q-40	0.6	40	200	1.0/1.6	1.5/1.0	30:1	
DN50	Q-60	0.6	60	200	1.0/1.6	1.5/1.0	60:1	
	Q-85	0.6	85	210	1.0/1.6	1.5/1.0	70:1	
	Q-100	0.6	100	220	1.0/1.6	1.5/1.0	70:1	
DN65	Q-140	0.6	140	220	1.0/1.6	1.5/1.0	120:1	
	Q-100	0.8	100	220	1.0/1.6	1.5/1.0	70:1	
DN80	Q-140	0.8	140	240	1.0/1.6	1.5/1.0	100:1	
	Q-200	0.8	200	240	1.0/1.6	1.5/1.0	100:1	
DN100	Q-300	0.8	300	280	1.0/1.6	1.5/1.0	110:1	
	Q-450	0.8	450	300	1.0/1.6	1.5/1.0	110:1	
DN150	Q-650	10	650	580	1.0/1.6	1.5/1.0	80:1	
	Q-1000	10	1000	600	1.0/1.6	1.5/1.0	80:1	
DN200	Q-1600	20	1600	850	1.0/1.6	1.5/1.0	60:1	Cast Iron
DN250	Q-3000	30	3000	1050	1.0/1.6	1.0/1.6	40:1	