

GAS ROOTS FLOW METER



DESCRIPTION

Gas roots flow meter is a positive displacement, rotary type gas meter designed for continuously measuring and indicating the accurate measurement of gas in a pipeline.

APPLICATIONS

- Gas pressure regulation station
- Civil boiler
- Propane
- Nitrogen
- Any non-corrosive gas medium

FEATURES

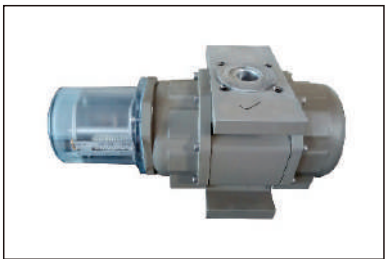
- Using advanced microcomputer technology and high-performance integrated chips
- powerful in function and superior in performance
- Circuit adopt surface installation process, strong anti-interference capability
- Anti-dismantle and compact in structure design, anti-dismantle
- Adopt advanced micro power technology, low energy consumption, dual power available
- Running for more than five years with built-in battery
- Real-time data storage function
- With fault self-diagnosis and alarm function

TECHNICAL DATA

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
	Pulse
	4-20mA
	IC card
	Modbus RS485
Protection	IP 65



D- Digital Type

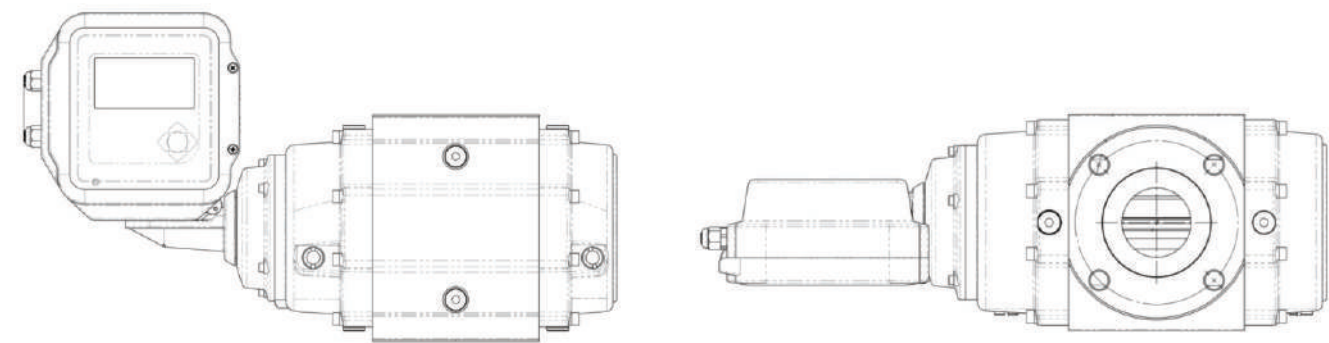


N- Mechanical Type



Filter

TECHNICAL DRAWINGS



MODEL SELECTION

Model	Suffix Code						Description
XXX-	①	②	③	④	⑤	⑥	Gas Roots Flow Meter
Diameter	XXX						025: DN25 100: DN100 200: DN200
Flow Range	Q-XX						Refer to table
Converter Type		N					Basic Meter: Mechanical display without output
		C					Digital display; Temperature and pressure compensation; Pulse; 4-20mA; Modbus RS485; Control signal for IC card
		D					Digital Display; Automatic Temperature and pressure compensation Standard output: 4-20mA/ Pulse / Control signal for IC card Optional: Modbus RS485
Accuracy				10			±1.0% of rate
				15			±1.5% of rate
Pressure Rate					WP1		1.0 Mpa
					WP2		1.6 Mpa
Connection						DXX	D10: DIN PN 10 Flange as default D16: DIN PN16 Flange optional

FLOW RANGE

Diameter (mm)	Model	Starting Flow (m³/h)	Max Flow (m³/h)	Pressure Loss (Pa)	Material
DN25	Q-22	0.07	22	150	Aluminium Alloy
	Q-40	0.08	40	160	
DN32	Q-22	0.07	22	150	
	Q-40	0.08	40	160	
DN50	Q-65	0.07	65	170	
	Q-85	0.07	85	280	
	Q-110	0.1	110	320	
DN80	Q-140	0.1	140	380	
DN100	Q-240	0.18	240	350	
	Q-330	0.18	330	290	
	Q-450	0.3	450	320	
DN150	Q-650	0.8	650	470	
	Q-1000	1.2	1000	550	
DN200	Q-1600	1.2	1600	590	