



FEATURES

- Combine a flowmeter and flow regulator in a single unit
- Maintaining a constant flow-rate independent of inlet pressure fluctuations
- Heavy duty design
- For liquid and gas
- Reliable operation
- Easy maintenance
- Vertical installa

PRODUCT OVERVIEW

Purge set flow meter is combination of a flowmeter and flow regulator in a single unit. The regulator serves to maintain the flow rate set on the precision adjusting valve independent of fluctuations in inlet or outlet pressure. It is a sturdy, industrial constant flow regulator and is designed to provide constant flow of liquids or gases regardless of pressure variations. Typical applications are control of seal water, control of flush water, water purging and air purging.

OPERATING PRINCIPLE

We at Baron Instruments produce two types of purge flow meters:

1) The first is inlet pressure variation control model. In this type, the fluid is introduced from IN to the lower chamber of the C series Constant Flow as shown in figure 1. The load pressure (Secondary pressure) is connected to the upper chamber. The differential pressure between the lower chamber and the upper chamber is always constant thanks to the function of the spring and the diaphragm. The differential pressure across the needle valve is kept always constant and the flow rate of the fluid is proportional only to the opening of needle valve.

2) The second type is outlet pressure control model. The opposite action is taken for this type and the flow rate is kept also constant even when the load pressure changes. Operating principle of outlet pressure variation control model is shown in below figure.

STANDARD PARAMETERS

Size	1/8" to 1/2" (DN6-DN15)
Accuracy	±0.6% ~ ±1%FS
Material	SS304 & SS316
Range	Water (20°C): 0.1 l/h ~ 10 l/h Air (1atm abs, 20°C): 0.005 NI/min ~ 20 NI/min

DIMENSIONAL DRAWING

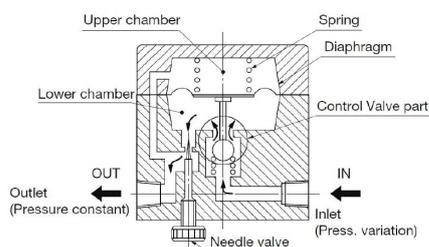


Figure 1. Design for inlet pressure variation control

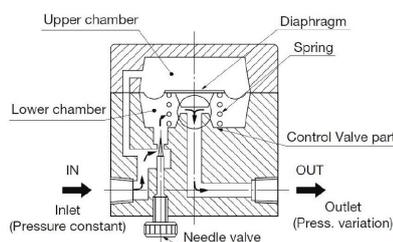


Figure 2. Design for outlet pressure variation control