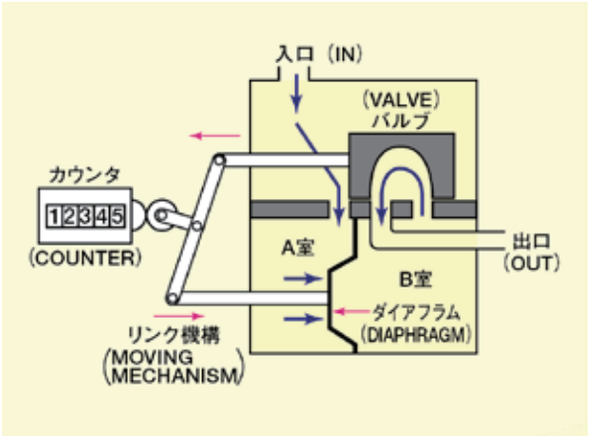


The principle and structure of dry gas meters

The meter is divided into four measuring chambers, by two diaphragms. Gas flows into a chamber, moving the diaphragm due to differential pressure. The chambers are alternately connected to inlet or outlet, by a slide valve which moves with the diaphragms. The diaphragm movement is conducted to an accumulating counter via a rotary crank, showing the volume passing through the meter.

DC-2C-M

DC – For experimentation, environmental measurement

Materials All models:
Casing : Polybutylene terephthalate (PBT) and polycarbonate (PC)
Diaphragm : Polyester cloth with hydrin rubber (CHC+NBR)
Counter parts : Brass and polyacetal resin (POM)

DC-5A : Inner parts : Aluminium alloy die casting, zinc-coated steel plate and brass
DC-1C/2C : Inner parts : Polyphenylene sulfide (PPS) and stainless steel
DC-5C : Inner parts : Aluminium alloy die casting, zinc-coated steel plate and stainless steel

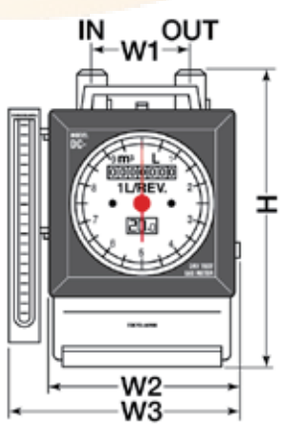
Pressure loss	**320Pa**
Operating pressure limit	**0kPa to 10kPa**
Operating temperature limit	**-10℃ to 50℃**

Repeatability: ±0.3% (Standard deviation)
***Changes depending on the measurement situation**

Model	Measuring range	Diaphragm capacity (L)	One revolution (L)	Minimum scale (mL)	Connector	Weight (kg)
DC-1C	0.16 ～ 18.3L/min（10 ～ 1100L/h）	0.7	1	5	φ 9	2.5
DC-2C	0.16 ～ 33.3L/min（10 ～ 2000L/h）	0.7	1	5	φ 13	2.5
DC-5A/C	0.83 ～ 83.3L/min（50 ～ 5000L/h）	1.2	10	50	φ 19	3.9

***Pulse output can be installed.**
***Manometer can be installed.**

Model	W1	W2	W3 (-M type)	L	H
DC-1	90	174	235	150	258
DC-2	90	174	235	150	258
DC-5	130	199	264	176	309



Symbols

DC ① – ② AorC ③ – ④

① Pulse output
A ：Explosion-proof pulse output
Da ：Regular pulse output
② Maximum flow rate
1/2/5 (A-type is only 5)
③ Options
o ：Degreased
f ：Teflon coating
④ Options
M ：1.8kPa manometer
D ：Without digital thermometer