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## Positive Displacement Flow Meter CE-212

### Introduction (1 b)

Achievers CE-212 Flow Meter works on the principle of reciprocating motion of its piston. It is widely known as Piston Type Positive Displacement Flow Meter. This technique is widely used for fuel dispenser flow calculation. It provides high accuracy and reliability for a wide range of liquids.

### Applications (1 b)

Achievers CE-212 Flow Meter can be used in a wide range of applications. The foremost application is for accurate measurement of liquids. The Flow Meter is available in mechanical register and with digital pulse output which can be connected to digital display also. This makes it easier to be used in PLC systems for preset systems and dispensers.

### Technical Details (1 c)

The provided flow meter is manufactured with high quality materials and is strictly checked against various quality checks in order to provide an accurate measurement over a long period of time.

#### Materials:

- Body : Aluminium (Spray Painted)
- Seals : Buna-N

#### Technical Specifications:

- Discharge rate of each revolution: 0.5L
- Flow Range : 5 L/min – 60 L/min
- Diameter of rotary bar: 9mm
- Rotary direction of rotary bar: Clock wise
- Diameter of cylinder cover: 72.4mm
- Environmental condition:-40°C~+70°C
- Off-setting of crankshaft: 14.93mm
- Travel of piston: 29.80-31.38mm



- **Adjusting range of piston quantity: 29.86mm**
- **Working pressure: 0.12Mpa-0.3Mpa**
- **Repeatablilty :  $\leq \pm 0.05\%$**

**Features :**

- **Micro-accurate 4-piston,positive displacement type meter with rotary valve, exterior adjustment and double oil lip seal for long life.**
- **External structure achieved by single body design of components.**
- **Excellent accuracy:  $\pm 0.2\%$  with high flow through-put**

**Replacement Parts:**

| Key | Description         | Materials           |
|-----|---------------------|---------------------|
| 1   | Body                | Aluminum            |
| 2   | Piston kits         |                     |
| 3   | Port Cap II         | Cast Iron           |
| 4   | Stabilizer bar II   | Aluminum            |
| 5   | Stabilizer bar I    |                     |
| 6   | Distribute valve    | PTFE                |
| 7   | Up cap kits         |                     |
| 8   | Sealing Ring        |                     |
| 9   | Coupling            |                     |
| 10  | Rotary bar kits     | Cast Iron           |
| 11  | Port cap I          | Buna-N              |
| 12  | Sealing Ring        | Aluminum            |
| 13  | Bushing             |                     |
| 14  | Bearing             | 1Cr18Ni9Ti          |
| 15  | Adjusting disc Kits | Brass with graphite |