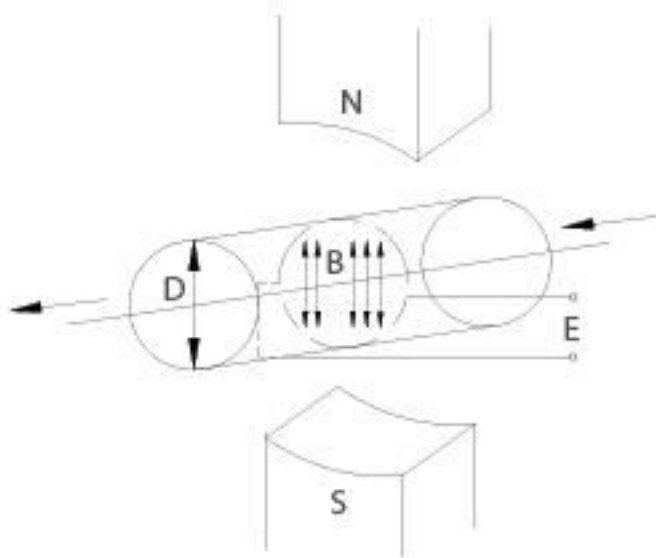




HEM SERIES

HCM intelligent electromagnetic flow meter is a kind of flow meter to measure liquid, with conductance exceeds 5uS/cm, such as water, slop, mine slurry as well as the flow of strong caustic liquid as strong acidic and strong alkaline and so on.



The measure principles of HCM intelligent electromagnetic flow meter rooted in Electromagnetic Induction Law of Faraday : electromotive force will be produced in the conductor while the electric liquid cuts the magnetic influence line in the magnetic field. In according with this principle, to install a pair of electrodes on the internal sides of the pipe, which is perpendicular with the pipe axisline and magnetic line, so electromotive force E will be produced by the twoelectrodes.

$$E = KBVD$$

- K = Instrument modulus
- B = The intension of magnetic influence
- V = The average velocity of flow to measure the section of pipeline
- D = The internal diameter to measure the pipe's section



During the process of measuring the flow, the liquid will flow over the magnetic field, which is perpendicular with the flow direction, at the speed V. Then the flow of the liquid will induce a voltage that is proportional to the average velocity of flow. The influent pressure signal is examined while passing two or more than two electrodes, which meet the liquid directly, and is carried to the transformer by cable to be disposed intelligently, then it will showed by LCD or transformed media to normal signal 4~20mA and 0~1 kHz to output.

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