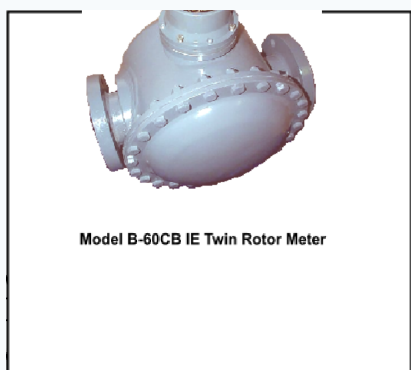


POSITIVE DISPLACEMENT METERS

Description

The IE Twin Rotor Meter is a positive displacement flow meter that is designed to measure the total throughput of liquid products. It is unique in that it does not use any sliding vanes or reciprocating parts nor are there any shock loads on the mechanism during operation resulting from the shifting of off-balance masses. The Electronic Totalizer located on the output shaft on the counter drive gearing, permits the operator at the time of installation, to adjust the output of the measuring unit to read in an exact number of units of volume. Thus the Electronic Totalizer allows an adjustment of accuracy of the meter calibration. This Twin rotor meter is primarily designed for gravity operation up to 570 LPM but may be used in pump installations where flows do not exceed 950 LPM and the working pressure is under 125 PSI (862 kPa).



Model B-60CB IE Twin Rotor Meter

TANK TRUCK & INDUSTRIAL METERS B-60CB/B-61CB

Principle Of Operation

The principle of operation of the IE Twin Rotor Meter is embodied in the function of the two rotors, which are the only moving parts within the measuring unit. They are always dynamically balanced but hydraulically unbalanced. The rotors are not in metal-to-metal contact with one another or with the housing in which they rotate. They are maintained in proper timed relationship with one another by helical gears. They divide the volume being measured into segments, separate each segment from the flowing stream momentarily, and then return them to the stream. The segments of flow are counted and the results are transferred to a totalizing counter. (See Figure 1).

Materials Of Construction

Body and Housing Carbon Steel Rotors Aluminium Timing Gears Stainless Steel Bushings Rulon* Ball Bearings Stainless Steel O-Rings Viton *Tradename of Dixon Corporation.

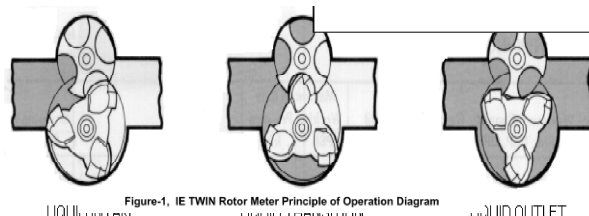


Figure-1, IE TWIN Rotor Meter Principle of Operation Diagram

Specification: -

WARNING: Do not operate this instrument in excess of the specifications listed below. Failure to heed this warning may result in serious personal injury and/or damage to the equipment.

Maximum Working Pressure: -

125 psig

Accuracy: -

± 0.25%

Operating Temperature: -

-Maximum of 150°F (66°C)

-Minimum of -20°F (-29°C)

Connections: -

3" ANSI 150 RF

SPECIFICATION OF ELECTRONIC TOTALIZER:

- Microprocessor based electronics
- 6 digit totalizer
- Rate of flow Indication
- Non resettable Totalization
- Replaceable Lithium battery (once in every 3 years)
- Programmable accuracy adjustor

ORDERING INFORMATION

1. Liquid to be metered, specific gravity and viscosity
2. Liquid Operating Temperature
3. Maximum and minimum flow rate
4. Operating line pressure
5. Read-out functions and specifications
6. Units of registration