Technical Data

Aluminum BiRotor Meter

Model BA80AL [4"]

General

The Brodie Model BA-80AL All Aluminum-Axial Flow BiRotor meter offers the exclusive BiRotor principle of operation - no sliding, oscillating or reciprocating parts. A rugged but simple design, plus two rotors that are stati-cally and dynamically balanced, means long life and low maintenance costs. High accuracy is retained over a flow range of 60 to 600 G.P.M.
This BiRotor meter occupies a minimum of space and meets U.S. Military specifications for non-ferrous construction of aircraft refueling equipment. No ferrous or copper bearing materials are in contact with the metered liquid, only aluminum or stainless steel.

Dependability

There is no metal to metal contact between the rotors and the measurement chamber. The meter is therefore extremely durable. The rotors, bearings and timing gears are the only moving parts. Maintenance requirements are the lowest in` the industry. In addition, the materials incorporated within the meter assembly are selected specifically for the wide range of petroleum and industrial liquid applications.

Affordability

In spite of its superior performance, Brodie can offer the BiRotor at a very competitive price.

Design Features

- Double case design
- Extremely long service life
- Economical Low maintenance
- Two simple rotors with no metal-to-metal contact
- No oscillating, reciprocating or sliding parts or cranks to wear or disturb the balanced rotary action
- Sustained Measurement Accuracy
- Conforms with International standards of flowmeter accuracy

Specifications

Model	Max Working Pressure at 100°F (38°)	Connections	Capacity - Continuous (Intermittent*)				Approx. Shipping Weight w/ LDR
			US gpm	Imp. gpm	lpm	bph	
BA80AL	150 psi 1034 kPa	4", 150# Victaulic or 4", 150# ANSI Flanges	60-600 -800	50-500 -665	227-2270 -3025	85-850 -1135	156 lbs. 71 kg.

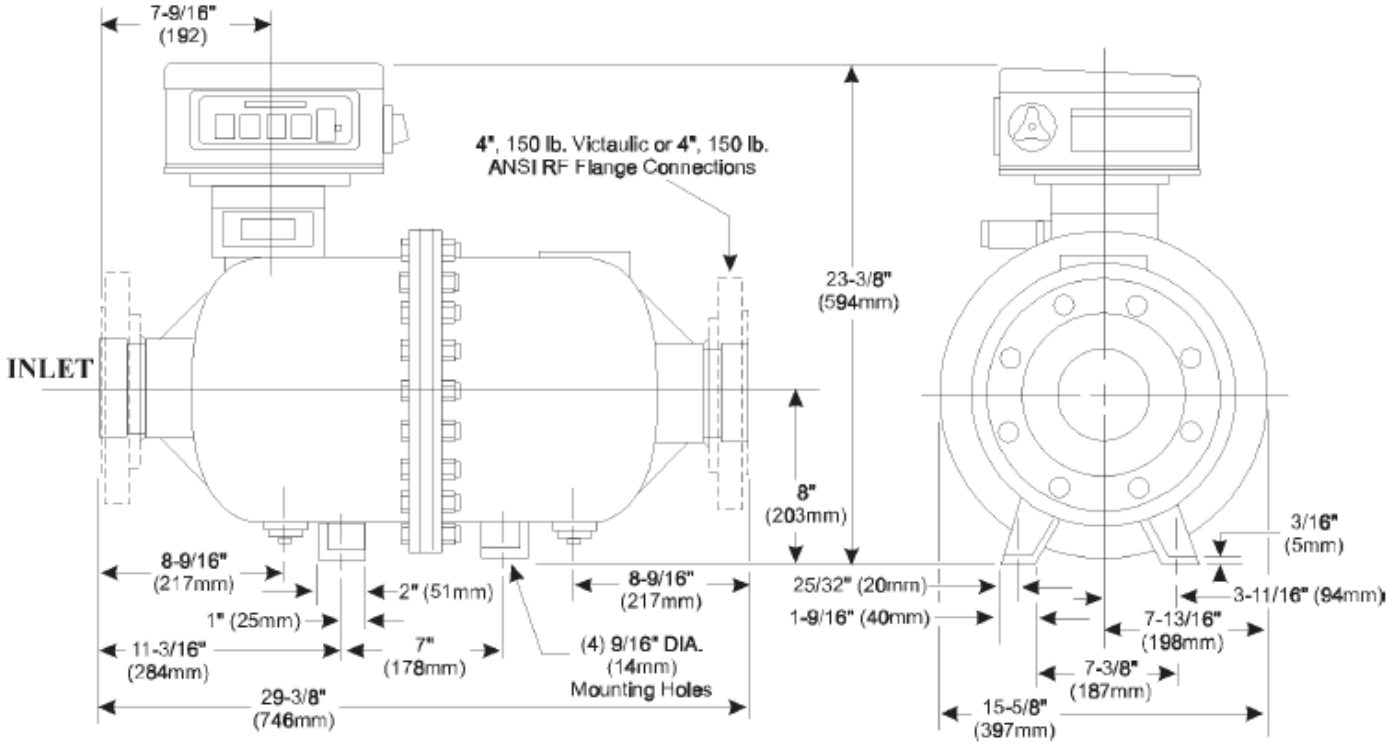
**Intermittent usage equals 5 hours or less in a 24 hr. period*

Materials of Construction

Housing:
Model: Aluminum
Measuring Unit:
Rotors - Aluminum (Standard)
Rotor Shafts - E.T.D. 150
Rotor Bearings - Stainless Steel
Body and End Covers - Aluminum

Counter Base Plate:
Body - Aluminum
O-Ring:
Drive Shafts: Viton (Standard)
Housing: Buna-N (Standard)
Drive Shafts Drive Gears and Ball Bearings:
Stainless Steel
Accuracy:
Capable of +/- 0.15%; Contact Factory for viscosity corrections.

Dimensions (For Certified Dimensional Prints - Consult Factory)



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

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