

BiRotor *Plus*

3" & 4"



The BiRotor *Plus* meter is a volumetric flow measuring device designed for the accurate measurement of petroleum liquids in a variety of applications. The double case meter combines the rugged durability and long service life of the traditional Brodie BiRotor meter with the improved accuracy and repeatability associated with today's most sophisticated devices.

SUPERIOR PERFORMANCE

Linearity:

$\pm 0.075\%$ or better over 30:1 flow range (4")

Repeatability: $\pm 0.01\%$

$\pm 0.10\%$ or better over 13:1 flow range (3")

Repeatability: $\pm 0.01\%$

Premium Linearity of less than 0.075% available

(4" only) (Contact Factory)

Pick-off Temperature

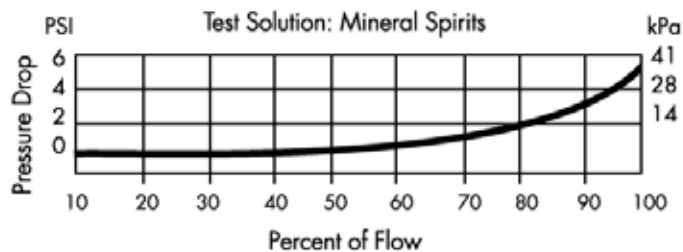
Standard: -20 to 180°F (-29 to 82°C)

High Temperature Option: -20 to 325°F (-29 to 163°C)

DESIGN FEATURES

- Double case construction avoids loss of calibration due to changes in pressure or temperature
- New rotor profile provides high resistance to air slugs and entrained solids
- No metal-to-metal contact
- Dual pulse output meets Level B pulse security described in API manual, Chapter 5.5.4.4.
- Explosion proof amplifier housing
- Single or dual pulse output - non-wetted pickoffs
- Reduced number of parts reduces maintenance requirements.
- Variety of readout instrumentation available
- Horizontal or vertical mounting
- Class I, Division 1, Group C & D, NEMA 4X, UL, cUL, ATEX, PED, SEP, NTEP, CRN (Canada) and Industry Canada (Canada)
- Bi-Directional flow capability (Consult Factory)
- Capable of operating @ 400 cst. max viscosity

TYPICAL PRESSURE DROP CURVE



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Positive Displacement Flow Meters BiRotor Plus Series

Sizes: 3", 4" , and 6"

Flow Ranges: 65 GPM - 1000 GPM Normal, 40 GPM - 1200 GPM Extended

Flange Connections: 3", 4" & 6" ANSI

Pressure Ratings: 150/285; 300/740 ANSI

Materials of Construction:

Meter Housing: Aluminum, Steel-ASTM A-216

Meter Internals: Aluminum

Seal Materials: Buna, Viton

Bearing Material: Stainless Steel

Accuracy: +/- 0.075% or better over 30:1 Flow Range

Repeatability: +/- 0.01% or better over 30:1 Flow Range

BiRotor Plus Design Specification Sheets (DS Sheets)

Other Design Specification Sheets

Size	Model Number	Normal Max Flow	Connection/Max Pressure
2"	B261	250 GPM 964 LPM	150#/285
2"	B264		300#/740
3"	B271	425 GPM 1,608 LPM	150#/285
3"	B274		300#/740
4"	B281	1,000 GPM 3,785 LPM	150#/285
4"	B284		300#/740
6"	B291	1,000 GPM 3,785 LPM	150#/285

Accessories

- Lorem Ipsum Dolor Sit Amut
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**For more detailed information,
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