SERIES B3: 8C175 ROOTS® Meter

**UNITS** | **Imperial** | **UNITS** | **Metric**
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Temperature Range | deg. F | -40 to +140 | deg. C | -40 to +60
Base Rating (Q Max.) | acfh | 800 | m³/h | 22.6
Max. Operating Pressure (MAOP)\(^1\) | psig | 175 | kPa | 1200
Leak Test (125% MAOP) | psig | 219 | kPa | 1510
Static Test (2 x MAOP) | psig | 350 | kPa | 2400
Rangeability +/- 1% | ratio | 26.1 | ratio | 26.1
Rangeability +/- 2% | ratio | 46.1 | ratio | 46.1
Start Rate | cfh | 2.79 | m³/h | 0.0790
Stop Rate | cfh | 2.03 | m³/h | 0.0575
Flow Rate @ 0.5" w.c., Gas | cfm | 800 | m³/h | 22.6
Avg. Differential, 100% Flow | in. w.c. | 0.45 | mbar | 1.1
Max. Pressurization Rate | psig/sec | 5 | kPa/sec | 35
Max. Operating Speed | rpm | 1800 | rpm | 1800
Gear Ratio | ratio | 1350:1 | ratio | 476,4705:1
Displaced Volume/Revolution | cf | 0.007407 | m³ | 0.000210
Drive Rate, CD | cf/rev | 10 | m³/rev | 0.1
Drive Rate, TD | cf/rev | 100 | m³/rev | 1
Temp. Compensating Range (TC,TD) | deg. F | -20 to +120 | deg. C | -29 to +49
Min. Odometer Reading | cf | 0.2 | m³ | 0.002
Odometer Turnover | yrs. | 14.27 | yrs. | 5.03
Nominal Pipe Size | in. | 2 | mm | 50.8
Flange-to-Flange | in. | 6-3/4 | mm | 172
Flange Connection | ANSI 150#FF | ANSI 150#FF
Bolts per Flange | qty. | 4 | qty. | 4
Bolt Size\(^2\) | in. | 5/8 - 11 | in. | 5/8 - 11
Flange Bolt Hole Depth | in. | 15/16 | mm | 23.8
Bolt Torque: Lubricated/Non-Lub. | ft.-lb. | 55/60 | N-m | 74/81
Restricting Orifice (120%) | in. | 9/32 | mm | 7,144
Oil Capacity – Side Inlet | oz. | 0.8 | ml | 24
Oil Capacity – Top Inlet | oz. | 3 | ml | 89
Counter Version (CTR)\(^3\) | l | 18 | kg | 8.2
Net Weight | lbs. | 21 | kg | 9.5
Shipping Weight | lbs. | 25 | kg | 11.3
Carton Size | in. | 23 x 11 x 9 | cm | 58 x 28 x 23

**Counter with Instrument Drive (CD)\(^3\)**

Net Weight | lbs. | 22 | kg | 10.0
Shipping Weight | lbs. | 25 | kg | 11.3
Carton Size | in. | 25 x 14 x 13 | cm | 66 x 35 x 33

**NOTES:**

\(^1\) Available with 200 PSIG rating.

\(^2\) Bolt Length varies by application.

\(^3\) Weights and dimensions available for CPS,TC,TD,TPS upon request.
Above data has been determined from tests performed with air at atmospheric pressure and ambient temperature, using positive displacement bell or piston provers dimensionally traceable to the United States National Institute of Standards and Technology (NIST) and traceable to NMi - Netherlands Measurements Institute for volumetric flow rate.

To order
Specify: Meter Series, Size and Type (i.e., GE Meter Series B3 8C175 CD).
For CD or TD, specify Inlet (Top or Side) and ID Rotation (CW-B or CCW-A).
For Pulser, specify Single or Dual Connectors and Connector Type (MS Circular, Conduit or Cable Gland).
For more specific ordering information on the electronic products, request: TS:SSP, TS:IMC/C or S:IMC/W.
Contact the factory for other available information, options, or special requests.