All-Metal Armored Flowmeter and Counter
for Liquids and Gases

- 316 Stainless Steel, PTFE-Lined Stainless Steel, and Hastelloy® C-22 Measuring Tubes
- Line Sizes up to 6"
- Direct Reading Scales Calibrated for Media Viscosity, Density, Operating Pressure and Temperature
- Analog Output, HART®, and Profibus®-PA
- Connection: 1/4"...2" NPT, ANSI 1/2"...6", Others Available
- Special Versions Available for Process Temperatures up to 660 °F
- Special Materials: Monel®, Tantalum, Others on Request

Order from: C A Briggs Company
622 Mary Street; Suite 101; Warminster, PA 18974
Phone: 267-673-8117 - 800-352-6265; Fax: 267-673-8118
Sales@cabriggs.com - www.cabriggs.com
The KOBOLD BGN armored variable area flowmeter is ideal for difficult applications that require high pressure capability, high temperature operation, or low pressure loss. The BGN’s standard design is available in stainless steel, PTFE-clad stainless steel, or Hastelloy® C-22. The standard BGN is well suited for water, most viscous liquids, and compressed gases in line sizes up to 6”. The direct reading scales are calibrated for media viscosity, density, operating pressure, and temperature. Electronic limit switches and an analog flow transmitter are available as options and are able to operate via intrinsically safe methods of protection and may be used in hazardous areas where intrinsically safe installations are permitted. Custom designs for high pressure, high temperature, special fittings, and special materials (such as Monel® and tantalum) are available. Other options include: self-draining flow bodies, gas or liquid damping, and a flow counter module.

**Technical Details**

**Sensor**
- **Materials:** 316 L SS / 316-Ti SS, Hastelloy® C-22, PTFE
- **Process Connection:** ASME B16.5, NPT, Other Connections on Request
- **Nominal Pressure:**
  - 580 PSIG, ASME Cl150 / 300 (Standard) (BGN-S/H)
  - 230 PSIG, ASME Cl150 (Standard) (BGN-P)
  - Higher Pressures Upon Request (Max. 8700 PSIG)
- **Process Temperature:**
  - -40...392 °F (BGN-S/H without Electr. Output)
  - -40...300 °F (BGN-S/H with Electr. Output)
  - -40...660 °F (BGN-S/H with Option V / H / W)
  - -40...257 °F (BGN-P)
- **Ambient Temperature:** -40...176 °F

**Accuracy**
- **Liquid:** ±1.6 % of Full Scale (BGN-S/H)
- ±2.0 % of Full Scale (BGN-P)
- **Gas:** ±1.8 % of Full Scale (BGN-S/H)
- ±2.2 % of Full Scale (BGN-P)

**Additional Inaccuracy with Transmitter (ES):** ±0.2 %

**Repeatability:** ±0.5 % of Full Scale

**Protection:**
- IP 65 (Aluminum Housing)
- IP 67 (Stainless Steel Housing)

**Display**
- **Material:** Aluminum (Stove-Enamed)
- Stainless Steel (as Option)

**Electrical Outputs:**
- Inductive Switch, SJ 3,5-N NAMUR (Standard) *
- Inductive Switch, SJ 3,5-SN NAMUR (Safety Design) * on Request
- Microswitch *
- Others on Request

**Ambient Temperature:**
- -40...176 °F (without Limit Switch)
- -40...149 °F (with Limit Switch)

* Using the segments of the slot-type initiators or the eccentric discs of the microswitches, any switching point between 10 % and 90 % of the flow rate can be set.

**Transmitter**
- ES with HART®-Protocol
- ES with HART®-Protocol and 2 NAMUR-Switches *
- ES with HART®-Protocol and 1 NAMUR-Switch / 1 Pulse Output
- ES with Profibus® PA
- ES with HART®-Protocol and Counter Module
- ES with Fieldbus® Foundation™
* Contact can be configured using HART®

**Power Supply:** 14 - 30 V DC
**Output:** Passive, Galvanically Isolated
**Current:** 4-20 mA
**Binary 1 and 2:** $U_i = 30 \, V$, $I_i = 20 \, mA$, $P_i = 100 \, mW$
**Input Binary:** Counter Reset
(only for ES with Counter Module)

**Ambient Temperature:** -40...158 °F

**Certification**
- **Explosion Protection:** DMT 00 ATEX E 075
- **Type of Protection:** II 2G Ex ia IIC T6
- **CE-Marking:** Explosion Protection Directive 94/9/EG

No responsibility taken for errors; subject to change without prior notice.
### Order Details for Low Flow Models: (Example: BGN-S10 201R A 0000 S 1 0 0K)

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Tube Material</th>
<th>Connection</th>
<th>Measuring Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Code</td>
<td>Water</td>
</tr>
<tr>
<td>BGN-S</td>
<td>S10. = Stainless Steel,</td>
<td>A..</td>
<td>BGN-S10: 0.0022...0.022 GPM</td>
</tr>
<tr>
<td></td>
<td>Process Temp. ≤ 660 °F</td>
<td></td>
<td>BGN-P10: 0.0031...0.031 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B..</td>
<td>BGN-S10: 0.0044...0.044 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C..</td>
<td>BGN-S10: 0.0071...0.071 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D..</td>
<td>BGN-S10: 0.011...0.11 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>E..</td>
<td>BGN-S10: 0.0176...0.176 GPM</td>
</tr>
</tbody>
</table>

*Reference Conditions: Water at 68 °F @ 1 mPas, Air at 68 °F @ 0 PSIG (Range Values for Other Media Upon Request)

To complete part number, please go directly to order table on page 7.

### Order Details for DN15 Models: (Example: BGN-S15 201R F 0000 S 1 0 0K)

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Tube Material</th>
<th>Connection</th>
<th>Measuring Range*</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Code</td>
<td>Water</td>
</tr>
<tr>
<td>BGN-S</td>
<td>S15. = Stainless Steel,</td>
<td>F..</td>
<td>0.022...0.22 GPM</td>
</tr>
<tr>
<td></td>
<td>Process Temp. ≤ 660 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G..</td>
<td>0.031...0.31 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H..</td>
<td>0.044...0.44 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>I..</td>
<td>0.071...0.71 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>J..</td>
<td>0.11...1.1 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>K..</td>
<td>0.176...1.76 GPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L..</td>
<td>0.264...2.64 GPM</td>
</tr>
</tbody>
</table>

*Reference Conditions: Water at 68 °F @ 1 mPas, Air at 68 °F @ 0 PSIG (Range Values for Other Media Upon Request)

1) Pressure stated for models BGN-S and BGN-H
2) Damping / spring not available
3) Only available with forward advanced indicating housing
4) Not available with heating / cooling
5) Not for model BGN-P
6) Not for model BGN-H
7) Not for model BGN-S
8) Cannot be converted for other media
9) IEC 61508-2:2010 conformity confirmed by Exida
10) Reduced raised face

No responsibility taken for errors; subject to change without prior notice.
## Order Details for DN25 Models: (Example: BGN-S25 202R M 0000 S 1 0 0K)

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Tube Material</th>
<th>Connection</th>
<th>Measuring Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGN-..</td>
<td>= Stainless Steel, Process Temp. ≤ 660 °F</td>
<td>= 3/4&quot; Class 150 RF ASME</td>
<td>= 0.44...4.4 GPM</td>
</tr>
<tr>
<td>..P25.. = Stainless Steel Measuring Tube, PTFE-Casing, Process Temp. ≤ 257 °F, Max. Pressure 230 PSIG</td>
<td>= 1&quot; Class 150 RF ASME</td>
<td>= 0.705...7.05 GPM</td>
<td>N..</td>
</tr>
<tr>
<td>..H25.. = Hastelloy® C-22, Process Temp. ≤ 660 °F</td>
<td>= 1/4&quot; NPT</td>
<td>= 1.1...11 GPM</td>
<td>P..</td>
</tr>
<tr>
<td>..60405.. = 3/4&quot; NPT</td>
<td>Q..</td>
<td>= 1.76...17.6 GPM</td>
<td>Q..</td>
</tr>
<tr>
<td>..60305.. = 1/2&quot; NPT</td>
<td></td>
<td></td>
<td>R..</td>
</tr>
</tbody>
</table>

*Reference Conditions: Water at 68 °F @ 1 mPas, Air at 68 °F @ 0 PSIG (Range Values for Other Media Upon Request)

## Order Details for DN40 Models: (Example: BGN-S40 205R P 0000 S 1 0 0K)

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Tube Material</th>
<th>Connection</th>
<th>Measuring Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGN-..</td>
<td>= Stainless Steel, Process Temp. ≤ 660 °F</td>
<td>= 1-1/2&quot; Class 150 RF ASME</td>
<td>= 1.1...11 GPM</td>
</tr>
<tr>
<td>..P40.. = Stainless Steel Measuring Tube, PTFE-Casing, Process Temp. ≤ 257 °F, Max. Pressure 230 PSIG</td>
<td>= 1-1/2&quot; Class 300 RF ASME</td>
<td>= 1.1...11 GPM</td>
<td>Q..</td>
</tr>
<tr>
<td>..H40.. = Hastelloy® C-22, Process Temp. ≤ 660 °F</td>
<td>= 3/4&quot; NPT</td>
<td>= 2.64...26.4 GPM</td>
<td>R..</td>
</tr>
<tr>
<td>..60505.. = 1&quot; NPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..60205.. = 1/2&quot; NPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..60105.. = 1/4&quot; NPT</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Reference Conditions: Water at 68 °F @ 1 mPas, Air at 68 °F @ 0 PSIG (Range Values for Other Media Upon Request)

1) Pressure stated for models BGN-S and BGN-H
2) Damping / spring not available
3) Only available with forward advanced indicating housing
4) Not available with heating / cooling
5) Not for model BGN-P
6) Not for model BGN-H
7) Not for model BGN-S
8) Cannot be converted for other media
9) IEC 61508-2:2010 conformity confirmed by EXIDA
10) Reduced raised face

No responsibility taken for errors; subject to change without prior notice.
Order Details for DN50 Models: (Example: BGN-S50 206R Q 0000 S 1 0 0K)

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Tube Material</th>
<th>Connection</th>
<th>Measuring Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGN-..</td>
<td>.S50.. = Stainless Steel, Process Temp. ≤ 660 °F</td>
<td>.206R.. = 2” Class 150 RF ASME</td>
<td>Code Water Air</td>
</tr>
<tr>
<td></td>
<td>.P50.. = Stainless Steel Measuring Tube, PTFE-Casing, Process Temp. ≤ 257 °F, Max. Pressure 230 PSIG</td>
<td>.226R8.. = 2” Class 300 RF ASME</td>
<td>..Q.. 1.76...17.6 GPM 6.47...64.7 SCFM</td>
</tr>
<tr>
<td></td>
<td>.H50.. = Hastelloy® C-22, Process Temp. ≤ 660 °F</td>
<td>.6070.. = 1-1/2&quot; NPT</td>
<td>..R.. 2.64...26.4 GPM 10...100 SCFM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.6080.. = 2” NPT</td>
<td>..S.. 4.4...44 GPM 17.07...170.7 SCFM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>..T.. 7.05...70.5 GPM 27.07...270.7 SCFM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>..U5)9) 11...110 GPM 41.19...411.9 SCFM</td>
</tr>
</tbody>
</table>

*Reference Conditions: Water at 68 °F @1 mPas, Air at 68 °F @ 0 PSIG (Range Values for Other Media Upon Request)

Order Details for DN80 Models: (Example: BGN-S80 208R T 0000 S 1 0 0K)

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Tube Material</th>
<th>Connection</th>
<th>Measuring Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGN-..</td>
<td>.S80.. = Stainless Steel, Process Temp. ≤ 660 °F</td>
<td>.208R.. = 3” Class 150 RF ASME</td>
<td>Code Water Air</td>
</tr>
<tr>
<td></td>
<td>.P80.. = Stainless Steel Measuring Tube, PTFE-Casing, Process Temp. ≤ 257 °F, Max. Pressure 230 PSIG</td>
<td>.228R8.. = 3” Class 300 RF ASME</td>
<td>..T.. 7.05...70.5 GPM 27.07...270.7 SCFM</td>
</tr>
<tr>
<td></td>
<td>.H80.. = Hastelloy® C-22, Process Temp. ≤ 660 °F</td>
<td>.6070.. = 1-1/2&quot; NPT</td>
<td>..U.. 11...110 GPM 41.19...411.9 SCFM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.6080.. = 2” NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>..V5) 17.61...176.1 GPM 64.74...647.4 SCFM</td>
</tr>
</tbody>
</table>

*Reference Conditions: Water at 68 °F @1 mPas, Air at 68 °F @ 0 PSIG (Range Values for Other Media Upon Request)

1) Pressure stated for models BGN-S and BGN-H
2) Damping / spring not available
3) Only available with forward advanced indicating housing
4) Not available with heating / cooling
5) Not for model BGN-P
6) Not for model BGN-H
7) Not for model BGN-S
8) Cannot be converted for other media
9) IEC 61508-2:2010 conformity confirmed by EXIDA

All-Metal Armored Flowmeter and Counter Model BGN

Order from: C A Briggs Company
622 Mary Street; Suite 101; Warminster, PA 18974
Phone: 267-673-8117 - 800-352-6265; Fax: 267-673-8118
Sales@cabriggs.com - www.cabriggs.com

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### Order Details for DN100 Models: (Example: BGN-S1H 210R V 0000 S 1 0 0K)

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Tube Material</th>
<th>Connection</th>
<th>Measuring Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGN-..</td>
<td>..S1H.. = Stainless Steel, Process Temp. ≤ 660 °F</td>
<td>..V..</td>
<td>17.61...176.1</td>
</tr>
<tr>
<td></td>
<td>..H1H.. = Hastelloy® C-22, Process Temp. ≤ 660 °F</td>
<td>..X6..</td>
<td>35.23...352.3 GPM</td>
</tr>
<tr>
<td></td>
<td>..210R.. = 4&quot; Class 150 RF ASME</td>
<td>..230R..</td>
<td>44.03...440.3 GPM</td>
</tr>
<tr>
<td></td>
<td>..230R(381) .. = 4&quot; Class 300 RF ASME</td>
<td>..22)5) ..</td>
<td>44.03...440.3 GPM on Request</td>
</tr>
</tbody>
</table>

*Reference Conditions: Water at 68 °F @ 1 mPas, Air at 68 °F @ 0 PSIG (Range Values for Other Media Upon Request)

To complete part number, please go directly to order table on page 7.

### Order Details for DN150 Models: (Example: BGN-SH5 212R 2 0000 V 1 0 0K)

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Tube Material</th>
<th>Connection</th>
<th>Measuring Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGN-..</td>
<td>..SH.. = Stainless Steel, Process Temp. ≤ 660 °F</td>
<td>..212R(31) ..</td>
<td>44.03...440.3 GPM</td>
</tr>
<tr>
<td></td>
<td>..HH5.. = Hastelloy® C-22, Process Temp. ≤ 660 °F</td>
<td>..232R(381) ..</td>
<td>44.03...440.3 GPM</td>
</tr>
<tr>
<td></td>
<td>..25) ..</td>
<td>..46) ..</td>
<td>57.24...572.2 GPM</td>
</tr>
</tbody>
</table>

*Reference Conditions: Water at 68 °F @ 1 mPas, Air at 68 °F @ 0 PSIG (Range Values for Other Media Upon Request)

---

1) Pressure stated for models BGN-S and BGN-H
2) Damping / spring not available
3) Only available with forward advanced indicating housing
4) Not available with heating / cooling
5) Not for model BGN-P
6) Not for model BGN-H
7) Not for model BGN-S
8) Cannot be converted for other media
9) IEC 61508-2:2010 conformity confirmed by EXIDA
10) Models from 4” Class 300 and up require selection of display “assembled at distance”. Choose display option codes: “V”, “H”, or “W”

---

No responsibility taken for errors; subject to change without prior notice.
**Order Details** Continued (Example: BGN-S 10201R A 0000 S 1 0 0K)

<table>
<thead>
<tr>
<th>Heating/Cooling</th>
<th>Damping/Spring Stop</th>
<th>Draining Body</th>
<th>Certificates</th>
<th>Display</th>
<th>Scale</th>
<th>Electrical Output</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>..0.. = without</td>
<td></td>
<td></td>
<td>..0.. = without Certificate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..R.. = with Flow Restrictor for Gas Measuring</td>
<td></td>
<td></td>
<td>..1.. = Certificate of Compliance with the Order 2.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..0.. = without</td>
<td></td>
<td></td>
<td>..0.. = without Certificate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..3.. = with Heating ANSI-Flange 1/2&quot; Class 150</td>
<td></td>
<td></td>
<td>..2.. = Test Report 2.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..F1.. = with Liquid Damping</td>
<td></td>
<td></td>
<td>..0.. = without Certificate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..0.. = without</td>
<td></td>
<td></td>
<td>..1.. = Certificate of Compliance with the Order 2.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..G1.. = with Gas Damping</td>
<td></td>
<td></td>
<td>..0.. = without Certificate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..L1.. = with Self Draining Body</td>
<td></td>
<td></td>
<td>..0.. = without Certificate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..A1.. = with Spring Stop</td>
<td></td>
<td></td>
<td>..0.. = without Certificate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..S1.. = with Gas Damping and Spring Stop</td>
<td></td>
<td></td>
<td>..0.. = without Certificate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..1.. = % Scale</td>
<td></td>
<td></td>
<td>..S1.. = Aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..V.. = Aluminum, Assembled at Distance, up to 660 °F</td>
<td></td>
<td></td>
<td>..1.. = % Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..E1.. = Stainless Steel</td>
<td></td>
<td></td>
<td>..1.. = % Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..H.. = Stainless Steel, Assembled at Distance, up to 660 °F</td>
<td></td>
<td></td>
<td>..1.. = % Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..B.. = Inspection Certificate with Material Certificate 3.1</td>
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<td></td>
<td>..1.. = % Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..T1.. = Aluminum with Pressure Compensation</td>
<td></td>
<td></td>
<td>..1.. = % Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..C.. = Inspection Certificate with Material Certificate 3.2</td>
<td></td>
<td></td>
<td>..1.. = % Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>..W.. = Aluminum with Pressure Compensation, Assembled at Distance, up to 660 °F</td>
<td></td>
<td></td>
<td>..1.. = % Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Please specify media data in plain text (see below)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Additional Information Required for Order:**
- Measuring Range with Units
- Measured Media
- Process Temperature and Pressure
- Viscosity
- Operating Density (Liquids)
- Norm Density (Gases)

1) Pressure stated for models BGN-S and BGN-H
2) Damping / spring not available
3) Only available with forward advanced indicating housing
4) Not available with heating / cooling
5) Not for model BGN-P
6) Not for model BGN-H
7) Not for model BGN-S
8) Only available up to range code "E" (0.0176...0.176 GPM)
9) Cannot be converted for other media
10) IEC 61508-2:2010 conformity confirmed by Exida
11) Not for "Low Flow" or DN150 (6") models
12) Not for "Low Flow" models
13) Not for DN100 4" with 300lb ANSI, all DN100 5" ANSI, or all DN150 6" models

No responsibility taken for errors; subject to change without prior notice.
All-Metal Armored Flowmeter and Counter Model BGN

Dimensions

Aluminum Display

Stainless Steel Display

<table>
<thead>
<tr>
<th>DN</th>
<th>PN</th>
<th>I. W. (Inner Width)</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aluminum Display</td>
</tr>
<tr>
<td>15</td>
<td>40</td>
<td>1.02&quot;</td>
<td>2.91&quot;</td>
</tr>
<tr>
<td>25</td>
<td>40</td>
<td>1.26&quot;</td>
<td>3.03&quot;</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>1.81&quot;</td>
<td>3.35&quot;</td>
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<tr>
<td>50</td>
<td>40</td>
<td>2.76&quot;</td>
<td>3.86&quot;</td>
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<tr>
<td>100</td>
<td>16</td>
<td>4.92&quot;</td>
<td>5.00&quot;</td>
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<tr>
<td>125</td>
<td>16</td>
<td>5.91&quot;</td>
<td>5.59&quot;</td>
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<tr>
<td>150</td>
<td>16</td>
<td>6.26&quot;</td>
<td>5.83&quot;</td>
</tr>
</tbody>
</table>

Dimensional Deviations:
* + 3.94" with forward advanced display and generally at DN 150

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BGN Armored Variable Area Flowmeter
Application Guide

Rev 12/2015
Page 1 of 2

C A Briggs Company
622 Mary Street; Suite 101
Warminster, PA 18974
Phone: 267-673-8117
Fax: 267-673-8118
E-Mail: Sales@cabriggs.com
www.cabriggs.com

Customer Name: _____________________________________________

Company Name: _____________________________________________

Phone: _________________________ Fax: ________________________

E-mail: ______________________________________________________

Quotation #: _________________________   Date: ________________________   Price: ________________________ Each

Part Number: ______________________________________________________________________________________

Calibrated Measuring Range: ____________________________________________________

Design Conditions

Accurate design pressure and temperature are essential to ensure the flowmeter will be built to operate without damage. Please fill out accurately and completely.

1. Pressure: Maximum ________ PSIG

2. Temperature: Maximum ________ °F

Calibration Conditions for Liquid Flow Applications

1. Type of Liquid: _______________________________

2. Normal Operating Temperature: ______________ °F

3. Viscosity at Normal Operating Temperature: ______________

4. Specific Gravity (at Normal Operating Temp): ______________

5. Desired Measuring Range and Units: ______________

Note: Items 3 & 4 not required for water flow

Calibration Conditions for Gas Flow Applications

1. Type of Gas: _______________________________

2. Normal Operating Temperature: ______________ °F

3. Normal Pressure at Outlet Fitting: ________ PSIG

4. Specific Gravity (required for gas mixtures): ______________

5. Desired Measuring Range and Units: ______________

Note: The calibration pressure required is the pressure that the meter sees at its outlet fitting

Measuring Tube Options

1. Measuring Tube Material:
   - [ ] 316 Stainless Steel
   - [ ] PTFE Lined Stainless Steel
   - [ ] Hastelloy C-22
   - [ ] Other (specify): _______________________________

2. Desired Fitting Size:
   - [ ] 1/2"
   - [ ] 3/4"
   - [ ] 1"
   - [ ] 1-1/2"
   - [ ] 2"
   - [ ] 3"
   - [ ] 4"
   - [ ] 5"
   - [ ] 6"

3. Fitting Type:
   - [ ] NPT Thread (2" max)
   - [ ] 150 LB ANSI Flange
   - [ ] 300 LB ANSI Flange
   - [ ] Other (specify): _______________________________

4. Heating/Cooling Jacket:
   - [ ] None
   - [ ] 1/2" NPT Connections
   - [ ] 1/2" 150 lb. ANSI Connections
   - [ ] Other Connections (specify): _______________________________

5. Draining Body:
   - [ ] without
   - [ ] with Self Draining Body

6. Certificates:
   - [ ] without Cert.
   - [ ] Cert. of Compliance 2.1
   - [ ] Test Report 2.2
   - [ ] Inspection Cert. with Material Cert. 3.1
   - [ ] Inspection Cert. with Material Cert. 3.2
Indicator/Electronic Options

1. Display Housing:  
   - Aluminum  
   - High Temperature Aluminum (660 °F)  
   - Stainless Steel  
   - High Temperature Stainless Steel (660 °F)  
   - Aluminum with Pressure Compensation  
   - High Temperature Aluminum with Pressure Compensation

2. Scale:  
   - % Scale Water  
   - Measuring Range Water  
   - % Scale Media  
   - Measuring Range Media  
   - Dual Scale (specify): _________________________________

3. Electrical Output:  
   - without  
   - 1x Inductive Switch  
   - 2x Inductive Switches  
   - 1x Micro-switch  
   - 2x Micro-switches  
   - 4-20mA Transmitter with HART®  
   - 4-20mA Transmitter with HART® & 2x NAMUR Switches  
   - 4-20mA Transmitter with HART® & 1x NAMUR Switch & Pulse Output  
   - 4-20mA Transmitter with Profibus® PA  
   - 4-20mA Transmitter with HART® & Digital Totalizer  
   - 4-20mA Transmitter with Fieldbus® Foundation™

Special Requirements (specify in writing):

______________________________________________________________________________________________________________

______________________________________________________________________________________________________________

______________________________________________________________________________________________________________

______________________________________________________________________________________________________________

______________________________________________________________________________________________________________

Order from: C A Briggs Company  
622 Mary Street; Suite 101; Warminster, PA 18974  
Phone: 267-673-8117 - 800-352-6265; Fax: 267-673-8118  
Sales@cabriggs.com - www.cabriggs.com  
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