4x4x13.5
Series e-80SC
In-Line Mounted Centrifugal Pumps

SPECIFICATIONS
FLOW _______ HEAD _______
HP _________ RPM __________
VOLTS _______ INPUT _______
CYCLE _______ PHASE _______
ENCLOSURE _______
APPROX. WEIGHT _______
SPECIALS _______

MATERIALS OF CONSTRUCTION
☑ Stainless Steel Fitted

MAXIMUM WORKING PRESSURE
☐ 175 psi (12 bar) with 125# ANSI flange drilling
☐ 250 psi (17 bar) with 250# ANSI flange drilling (requires 80-S)

MOUNTING
☐ In-Line Piping  ☐ Flange Supports

PUMP VARIABLE SPEED CONTROL
☐ Integrated Technologic® Sensorless Control (ITSC)
☐ Integrated Technologic® (IT)
☐ External input by others
☐ Pressure Sensor(s)
☐ Differential Pressure Sensor(s)
☐ Flow Sensor(s)
☐ By Others

TYPE OF FLUSHED SEAL
☐ Standard Inside Unitized (EPR/Carbon-Ceramic)
☐ Inside Unitized (EPR/Carbon-Tungsten Carbide)-250#
☐ Inside Unitized (FKM/Carbon-Ceramic)
☐ Other seal, see description
☐ Outside (EPR/Carbon-Ceramic)-250#
☐ Outside (FKM/Carbon-Ceramic)-250#
4x4x13.5 Series e-80SC
In-Line Mounted Centrifugal Pumps

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FLOW _______ HEAD _______
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☒ Pressure Sensor(s)
☒ Differential Pressure Sensor(s)
☒ Flow Sensor(s)
☒ By Others

TYPE OF FLUSHED SEAL
☒ Standard Inside Unitized (EPR/Carbon-Ceramic)
☒ Inside Unitized (EPR/Carbon-Tungsten Carbide)-250#
☒ Inside Unitized (FKM/Carbon-Ceramic)
☒ Other seal, see description
☒ Outside (EPR/Carbon-Ceramic)-250#
☒ Outside (FKM/Carbon-Ceramic)-250#
### 4x4x13.5 Series e-80SC
Centrifugal Pump Submittal -
In-Line Piping

**Dimensions - Inches (mm)**

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<thead>
<tr>
<th>Motor Frame</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E (max)</th>
<th>F</th>
<th>G</th>
<th>H (max)</th>
<th>J</th>
<th>N</th>
<th>P</th>
<th>R (min)</th>
<th>V (min)</th>
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Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For TEFC add 1-1/2" to dimensions E & H.

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Xylem Inc.
8200 N. Austin Avenue, Morton Grove, IL 60053
Phone: (847)966-3700  Fax: (847)965-8379
www.bellgossett.com
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### 4x4x13.5 Series e-80SC
Centrifugal Pump Submittal - Flange Support Mounting

**Dimensions - Inches (mm)**

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<tr>
<th>MOTOR FRAME</th>
<th>A</th>
<th>HF BOLTING</th>
<th>HB</th>
<th>2HE BOLTING</th>
<th>HA</th>
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<th>G</th>
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<th>250# ANSI</th>
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NOTE: For TEFC add 1-1/2" to dimensions E & H.
**TECHNOLOGIC STANDARD FEATURES**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td>CONTROL METHOD WITH INTEGRATED TECHNOLOGIC® SENSORLESS CONTROL (ITSC)</td>
<td>Factory configured for sensorless operation.</td>
</tr>
<tr>
<td>CONTROL METHOD WITH INTEGRATED TECHNOLOGIC® (IT)</td>
<td>Field configurable for sensor by others, building management system input, or optional sensor(s) provided.</td>
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<tr>
<td>ENCLOSURE</td>
<td>NEMA 12 (same as IP55 &amp; UL type 12)</td>
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<tr>
<td>POWER DISCONNECT SWITCH</td>
<td>Included standard. Fused Disconnect Switch optional with three phase input voltage.</td>
</tr>
<tr>
<td>HARMONIC SUPPRESSION</td>
<td>Integrated non-saturating dual DC link reactors provide better harmonic performance than a 5% AC line reactor.</td>
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<tr>
<td>COOLING</td>
<td>Fan-cooled through temperature controlled and easy replacement.</td>
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<tr>
<td>AMBIENT TEMPERATURE RATING</td>
<td>14°F to 113°F (-10°C to 45°C)</td>
</tr>
<tr>
<td>COMMUNICATION PROTOCOLS</td>
<td>BACnet, Modbus RTU, N2 Metasys, FLN Apogee</td>
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<tr>
<td>ANALOG INPUTS</td>
<td>2 configurable for either voltage (0 to 10VDC) or current(0/4 to 20mA)</td>
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<tr>
<td>ANALOG OUTPUTS</td>
<td>1 (0/4 to 20mA) up to 500 ohm load accurate to 1% of full scale</td>
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<td>DIGITAL INPUTS</td>
<td>4 (0 to 24VDC), NPN or PNP, 0 to 24VDC, on 5 msec scan interval. Up to 2 can be configured as pulse inputs.</td>
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<td>DIGITAL OUTPUTS</td>
<td>2 (0 to 24VDC), 40mA max current, configurable as pulse outputs.</td>
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<td>RELAY OUTPUTS</td>
<td>2 programmable, 240VAC or 400VAC up to 2 A</td>
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<tr>
<td>MINIMUM CONTROL HEAD</td>
<td>______ ft (default set to 40% of design head if not unknown)</td>
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## Series e-80SC  4x4x13.5
Centrifugal Pump Submittal with Integrated Technologic Control

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Kv=2 (50)
Pressure Sensor/Transmitter For Pumps with TECHNOLOGIC® Drives

FEATURES
- 4-20mA output
- 10-28 VDC supply voltage
- Operating Temperature -40 to 85°C (-40 to 185°F)
- Storage Temperature -40 to 100°C (-40 to 212°F)
- Enclosure IP-66 (housing only)
- High Strength Stainless Steel Construction
- No Oil, Welds or Internal O-rings
- Wide Operating Temperature
- Low Static and Thermal Errors
- Compatible with Wide Variety of Liquids and Gases
- EMI/RFI Protection
- UL/cUL 508 Approved (with housing)
- 1lb. (0.45 kg) approximate weight

B&G PART NUMBERS
S13203 Pressure range: 0-100 psi (0-689 kPa)
S13204 Pressure range: 0-300 psi (0-2068 kPa)

Consult factory for other ranges.

INSTALLATION CONSIDERATIONS
- Standard 24 AWG (0.61 mm dia.) 2 wire shielded cable located in a conduit separate from high voltage wiring
- 24 vdc power supplied from Technologic Controller

DIMENSIONAL INFORMATION
Dimensions in Inches (Millimeters)

Jacketed Cable
10 ft. (3 m) long,
0.156 (3.962) dia.

Shrink Tubing
3/8" (9.5 mm) dia.

1/4 Male NPT
0.875" (22 mm) HEX

4-20mA Transducer Feedback
Parameters:
Group 6-**
Group 20-**
A53 = I for 4-20mA

Analog I/O
Digital I/O

AO +24V
4-20mA
Start/Stop
Control Device

Parameter: 5-10
[8] Start
Stop: Closed
Stop: Open

TECHNOLOGIC ANALOG SENSOR WIRING
Differential Pressure Sensor/Transmitter for Pumps with TECHNOLOGIC® Drives

**FEATURES**
- Relays reading to the Technologic controller up to 2000 ft. (610 m) away
- All wetted parts are 316 stainless steel
- Built-in RFI filter effective from 20 to 1000 MHZ
- Withstands static pressures up to 2300 PSI (15858 kPa)
- 3 Valve bypass manifold (optional)
- 10 lbs. (4.5 kg) approximate weight

**B&G PART NUMBERS**
- S100089 Pressure range: 0 - 40 psi (0 - 276 kPa)
- S100091 Pressure range: 0 - 70 psi (0 - 483 kPa)
- S100092 Pressure range: 0 - 100 psi (0 - 689 kPa)

Consult factory for other ranges.

**INSTALLATION CONSIDERATIONS**
- Standard 18 AWG (1.194 mm dia.) 2 wire shielded cable located in a conduit separate from high voltage wiring
- 24 vdc power supplied from Technologic Controller for distance <2000 ft (610 m)

**DIMENSIONAL INFORMATION**
Dimensions in Inches (Millimeters)

1. Process connection 1/4-18NPT for absolute pressure (+) side
2. Mounting thread 7/16-20 UNF to EN 61518
3. Dummy plug
4. Electrical connection: Screwed gland 1/2-14 NPT
5. Connection side
6. Electronic side, no digital display
7. Access cover over magnetic pushbuttons
8. Sealing screw with vent shown (optional)
9. Side vent for measuring liquid
10. Side vent for measuring gas (supplement H02)
11. Mounting bracket (2 shackles, 4 nuts, 4 U-plates, 1 angle) made of steel
Flow Sensor/Transmitter For Pumps with TECHNOLOGIC® Drives

The rugged Bell & Gossett Flow Sensor/Transmitter precisely measures system flow and transmits a proportional 4 to 20 mA DC signal to the Technologic Controller for display or program calculations.

STANDARD FEATURES

• Optional software and cable available for field programming
• Suitable for mounting in vertical pipe
• Suitable for mounting in horizontal pipe within 45° of top dead center
• Non-magnetically sensed, non-fouling paddle wheel
• NEMA 4X Transmitter Enclosure
• Maximum Pressure Ratings:
  1000 psi @ 100°F, 900 psi @ 200°F,
  750 psi @ 300°F (6895 kPa @ 38°C, 6205 kPa @ 93°C,
  5171 kPa @ 149°C)
• Maximum Temperature Ratings:
  Fluid - 300°F (149°C) continuous service
  Electronics - 150°F (66°C)
• 9.9 lbs (4.5 kg) approximate weight

INSTALLATION CONSIDERATIONS

• Standard 18 AWG (1.194 mm dia.) gauge 3 wire shielded cable located in conduit separate from high voltage wiring
• 24 vdc power supplied from Technologic Controller
• Takes accurate readings and relays them to the Technologic Controller up to 2,000 ft. (610 m) away, when 10 pipe diameters upstream and 5 pipe diameters downstream of straight uninterrupted flow is present.

<table>
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<tr>
<th>CALIBRATION CHART</th>
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<tr>
<td>B&amp;G Part No.</td>
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Consult factory for custom flow range calibration.