2x2x7B
Series e-80SC
In-Line Mounted Centrifugal Pumps

SPECIFICATIONS

FLOW          HEAD          RPM
HP            VOLTS          CYCLE
ENCLOSURE
APPROX. WEIGHT
SPECIALS

MAXIMUM WORKING PRESSURE

175 psi (12 bar) with
125# ANSI flange drilling

250 psi (17 bar) with
250# ANSI flange drilling (requires 250# Seal)

MATERIALS OF CONSTRUCTION

Stainless Steel Fitted

TYPE OF SEAL

Standard Inside Unitized (EPR/Carbon-Ceramic)
Inside Unitized (EPR/Carbon-Tungsten Carbide)-250#
Inside Unitized (FKM/Carbon-Ceramic)
Inside Unitized (EPR/SilCar/SilCar/SS)
Other seal, see description
Outside (EPR/Carbon-Ceramic)-250#
Outside (FKM/Carbon-Ceramic)-250#

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

FLOW (GPM)
HP
(PSI)
(CFM)

45% 64% 58% 62%
65% 67%
65% 62%
58%
65%
54%
65%

40% 48% 54%
62% 65% 58%
65% 62%
3/4HP

TOTAL HEAD

25
6
5
5.5
6
6.5
7

CAPACITY

0 10 20 30
0 25 50 75
2x2x7B Series e-80SC
In-Line Mounted Centrifugal Pumps

SPECIFICATIONS
- FLOW
- HEAD
- HP
- RPM
- VOLTS
- CYCLE
- 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 250# Seal)

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 SEAL
- Standard Inside Unitized (EPR/Carbon-Ceramic)
- Inside Unitized (EPR/Carbon-Tungsten Carbide)-250#
- Inside Unitized (FKM/Carbon-Ceramic)
- Inside Unitized (EPR/SilCar/SilCar/SS)
- Other seal, see description
- Outside (EPR/Carbon-Ceramic)-250#
- Outside (FKM/Carbon-Ceramic)-250#
2x2x7B
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 250# Seal)

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 SEAL
☐ Standard Inside Unitized (EPR/Carbon-Ceramic)
☐ Inside Unitized (EPR/Carbon-Tungsten Carbide)-250#
☐ Inside Unitized (FKM/Carbon-Ceramic)
☐ Inside Unitized (EPR/SilCar/SilCar/SS)
☐ Other seal, see description
☐ Outside (EPR/Carbon-Ceramic)-250#
☐ Outside (FKM/Carbon-Ceramic)-250#
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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.
### DIMENSIONS - Inches (mm)

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

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**2x2x7B Series e-80SC**

Centrifugal Pump Submittal - Flange Support Mounting
## 2x2x7B Series e-80SC
### In-Line Mounted Centrifugal Pumps
With Integrated Technologic Control

### TECHNOLOGIC STANDARD FEATURES

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<th>Feature</th>
<th>Description</th>
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<tr>
<td>CONTROL METHOD WITH INTEGRATED TECHNOLOGIC® SENSORLESS CONTROL (ITSC)</td>
<td>Factory configured for sensorless operation.</td>
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<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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<td>POWER DISCONNECT SWITCH</td>
<td>Included standard. Fused Disconnect Switch optional with three phase input voltage.</td>
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<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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<td>COOLING</td>
<td>Fan-cooled through temperature controlled and easy replacement.</td>
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<td>AMBIENT TEMPERATURE RATING</td>
<td>14°F to 113°F (-10°C to 45°C)</td>
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<td>COMMUNICATION PROTOCOLS</td>
<td>BACnet, Modbus RTU, N2 Metasys, FLN Apogee</td>
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<td>ANALOG INPUTS</td>
<td>2 configurable for either voltage (0 to 10VDC) or current (0/4 to 20mA)</td>
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<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>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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<td>MINIMUM CONTROL HEAD</td>
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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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*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

Ø 0.875 (22)
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.

DIMENSIONAL INFORMATION
Dimensions in Inches (Millimeters)

CONSULT FACTORY FOR CUSTOM FLOW RANGE CALIBRATION.