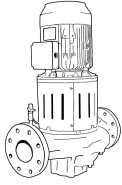


|                    |                        |              |
|--------------------|------------------------|--------------|
| <b>JOB:</b>        | <b>REPRESENTATIVE:</b> |              |
| <b>UNIT TAG:</b>   | <b>ORDER NO.:</b>      | <b>DATE:</b> |
| <b>ENGINEER:</b>   | <b>SUBMITTED BY:</b>   | <b>DATE:</b> |
| <b>CONTRACTOR:</b> | <b>APPROVED BY:</b>    | <b>DATE:</b> |



# 6x6x9.5B

## Series e-80SC

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_

HP \_\_\_\_\_ RPM \_\_\_\_\_

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ INPUT 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**

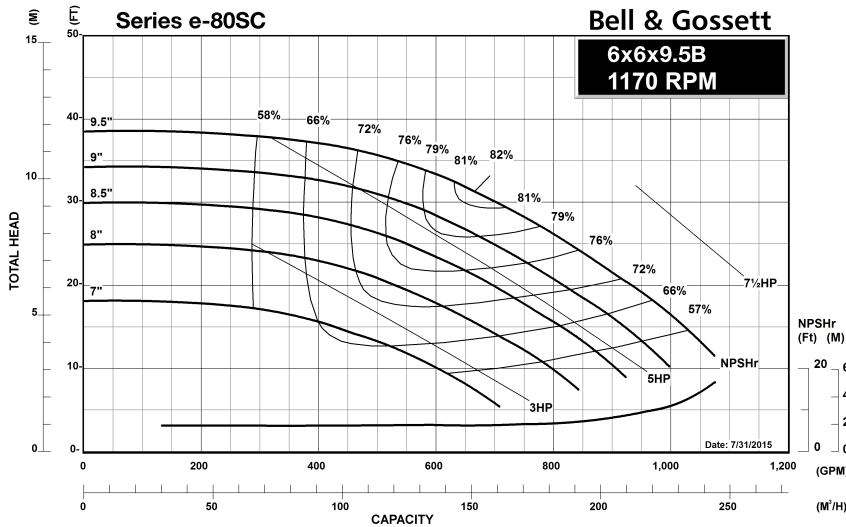
- In-Line Piping
- Flange Supports

**PUMP VARIABLE SPEED CONTROL**

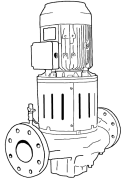
- Integrated Technologic® Sensorless Control (ITSC)
- Integrated Technologic® (IT)
  - External input by others
  - Pressure Sensor(s)
  - Differential Pressure Sensor(s)
  - Flow Sensor(s)
- By Others

**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#



|                    |                        |              |
|--------------------|------------------------|--------------|
| <b>JOB:</b>        | <b>REPRESENTATIVE:</b> |              |
| <b>UNIT TAG:</b>   | <b>ORDER NO.:</b>      | <b>DATE:</b> |
| <b>ENGINEER:</b>   | <b>SUBMITTED BY:</b>   | <b>DATE:</b> |
| <b>CONTRACTOR:</b> | <b>APPROVED BY:</b>    | <b>DATE:</b> |



## 6x6x9.5B Series e-80SC In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ INPUT 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**

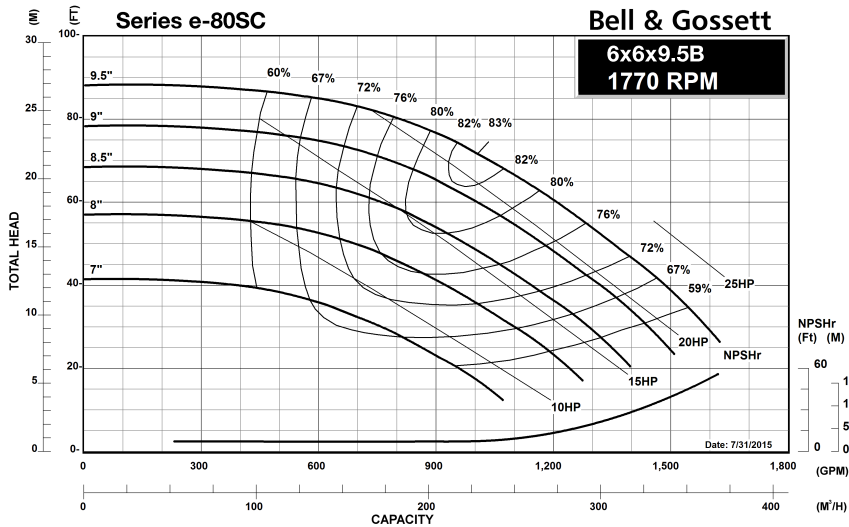
- In-Line Piping
- Flange Supports

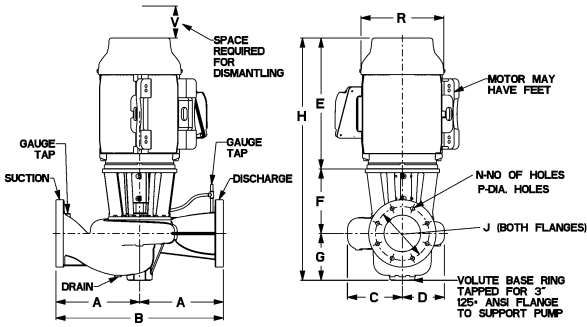
**PUMP VARIABLE SPEED CONTROL**

- 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#





# 6x6x9.5B Series e-80SC

## Centrifugal Pump Submittal - In-Line Piping

**DIMENSIONS - Inches (mm)**

**TC SHAFT MOTORS**

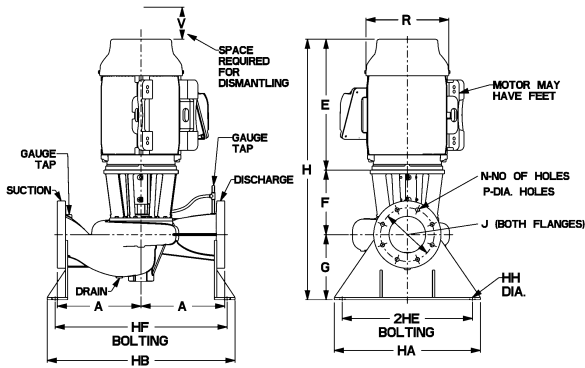
| MOTOR FRAME | A              | B              | C             | D              | E (max)        | F              | G             | H (max)         | 125# ANSI     |           |              | 250# ANSI      |            |              | R              | V (min)       | Suct/Disch Gauge Taps (NPT) | Drain Tap (NPT) |
|-------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|-----------------|---------------|-----------|--------------|----------------|------------|--------------|----------------|---------------|-----------------------------|-----------------|
|             |                |                |               |                |                |                |               |                 | J             | N         | P            | J              | N          | P            |                |               |                             |                 |
| 213TC       | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 14.88<br>(378) | 12.56<br>(319) | 8.88<br>(225) | 36.31<br>(922)  | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 5.50<br>(140) | 0.25                        | 0.25            |
| 215TC       | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 14.88<br>(378) | 12.56<br>(319) | 8.88<br>(225) | 36.31<br>(922)  | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 5.50<br>(140) | 0.25                        | 0.25            |
| 254TC       | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 19.44<br>(494) | 12.56<br>(319) | 8.88<br>(225) | 40.88<br>(1038) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 12.31<br>(313) | 5.50<br>(140) | 0.25                        | 0.25            |
| 256TC       | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 21.19<br>(538) | 12.56<br>(319) | 8.88<br>(225) | 42.63<br>(1083) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 12.31<br>(313) | 5.50<br>(140) | 0.25                        | 0.25            |
| 284TC       | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 22.06<br>(560) | 15.13<br>(384) | 8.88<br>(225) | 46.06<br>(1170) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 14.13<br>(359) | 5.50<br>(140) | 0.25                        | 0.25            |
| 286TC       | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 23.56<br>(598) | 15.13<br>(384) | 8.88<br>(225) | 47.56<br>(1208) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 14.13<br>(359) | 5.50<br>(140) | 0.25                        | 0.25            |

**IEC SHAFT MOTORS**

| MOTOR FRAME | A              | B              | C             | D              | E (max)        | F              | G             | H (max)         | 125# ANSI     |           |              | 250# ANSI      |            |              | R              | V (min)       | Suct/Disch Gauge Taps (NPT) | Drain Tap (NPT) |
|-------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|-----------------|---------------|-----------|--------------|----------------|------------|--------------|----------------|---------------|-----------------------------|-----------------|
|             |                |                |               |                |                |                |               |                 | J             | N         | P            | J              | N          | P            |                |               |                             |                 |
| 112M        | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 13.56<br>(344) | 12.56<br>(319) | 8.88<br>(225) | 35.00<br>(889)  | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 9.31<br>(237)  | 5.50<br>(140) | 0.25                        | 0.25            |
| 132         | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 17.13<br>(435) | 12.56<br>(319) | 8.88<br>(225) | 38.56<br>(979)  | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 10.81<br>(275) | 5.50<br>(140) | 0.25                        | 0.25            |
| 160M        | 16.75<br>(425) | 33.50<br>(851) | 7.57<br>(192) | 10.67<br>(271) | 20.25<br>(514) | 15.13<br>(384) | 8.88<br>(225) | 44.25<br>(1124) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 13.00<br>(330) | 5.50<br>(140) | 0.25                        | 0.25            |

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.



# 6x6x9.5B Series e-80SC Centrifugal Pump Submittal - Flange Support Mounting

**DIMENSIONS - Inches (mm)**

**TC SHAFT MOTORS**

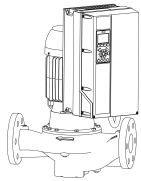
| MOTOR FRAME | A              | HF BOLTING     | HB             | 2HE BOLTING    | HA             | HH DIA       | E (max)        | F              | G             | H (max)         | 125# ANSI     |           |              | 250# ANSI      |            |              | R              | V (min)       | Suct/Disch Gauge Taps (NPT) | Drain Tap (NPT) |
|-------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|----------------|---------------|-----------------|---------------|-----------|--------------|----------------|------------|--------------|----------------|---------------|-----------------------------|-----------------|
|             |                |                |                |                |                |              |                |                |               |                 | J             | N         | P            | J              | N          | P            |                |               |                             |                 |
| 213TC       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 14.88<br>(378) | 12.56<br>(319) | 8.88<br>(225) | 36.31<br>(922)  | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 5.50<br>(140) | 0.25                        | 0.25            |
| 215TC       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 14.88<br>(378) | 12.56<br>(319) | 8.88<br>(225) | 36.31<br>(922)  | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 5.50<br>(140) | 0.25                        | 0.25            |
| 254TC       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 19.44<br>(494) | 12.56<br>(319) | 8.88<br>(225) | 40.88<br>(1038) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 12.31<br>(313) | 5.50<br>(140) | 0.25                        | 0.25            |
| 256TC       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 21.19<br>(538) | 12.56<br>(319) | 8.88<br>(225) | 42.63<br>(1083) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 12.31<br>(313) | 5.50<br>(140) | 0.25                        | 0.25            |
| 284TC       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 22.06<br>(560) | 15.13<br>(384) | 8.88<br>(225) | 46.06<br>(1170) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 14.13<br>(359) | 5.50<br>(140) | 0.25                        | 0.25            |
| 286TC       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 23.56<br>(598) | 15.13<br>(384) | 8.88<br>(225) | 47.56<br>(1208) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 14.13<br>(359) | 5.50<br>(140) | 0.25                        | 0.25            |

**IEC SHAFT MOTORS**

| MOTOR FRAME | A              | HF BOLTING     | HB             | 2HE BOLTING    | HA             | HH DIA       | E (max)        | F             | G             | H (max)         | 125# ANSI     |           |              | 250# ANSI      |            |              | R              | V (min)       | Suct/Disch Gauge Taps (NPT) | Drain Tap (NPT) |
|-------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|---------------|---------------|-----------------|---------------|-----------|--------------|----------------|------------|--------------|----------------|---------------|-----------------------------|-----------------|
|             |                |                |                |                |                |              |                |               |               |                 | J             | N         | P            | J              | N          | P            |                |               |                             |                 |
| 213JP       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 19.25<br>(489) | 9.25<br>(235) | 8.88<br>(225) | 37.38<br>(949)  | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 14.00<br>(356) | 5.00<br>(127) | 0.25                        | 0.25            |
| 215JP       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 19.25<br>(489) | 9.25<br>(235) | 8.88<br>(225) | 37.38<br>(949)  | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 14.00<br>(356) | 5.00<br>(127) | 0.25                        | 0.25            |
| 254JP       | 16.75<br>(425) | 34.78<br>(883) | 38.28<br>(972) | 22.50<br>(572) | 26.00<br>(660) | 1.00<br>(25) | 24.13<br>(613) | 9.25<br>(235) | 8.88<br>(225) | 42.25<br>(1073) | 9.50<br>(241) | 8<br>(22) | 0.88<br>(22) | 10.63<br>(270) | 12<br>(22) | 0.88<br>(22) | 17.00<br>(432) | 5.00<br>(127) | 0.25                        | 0.25            |

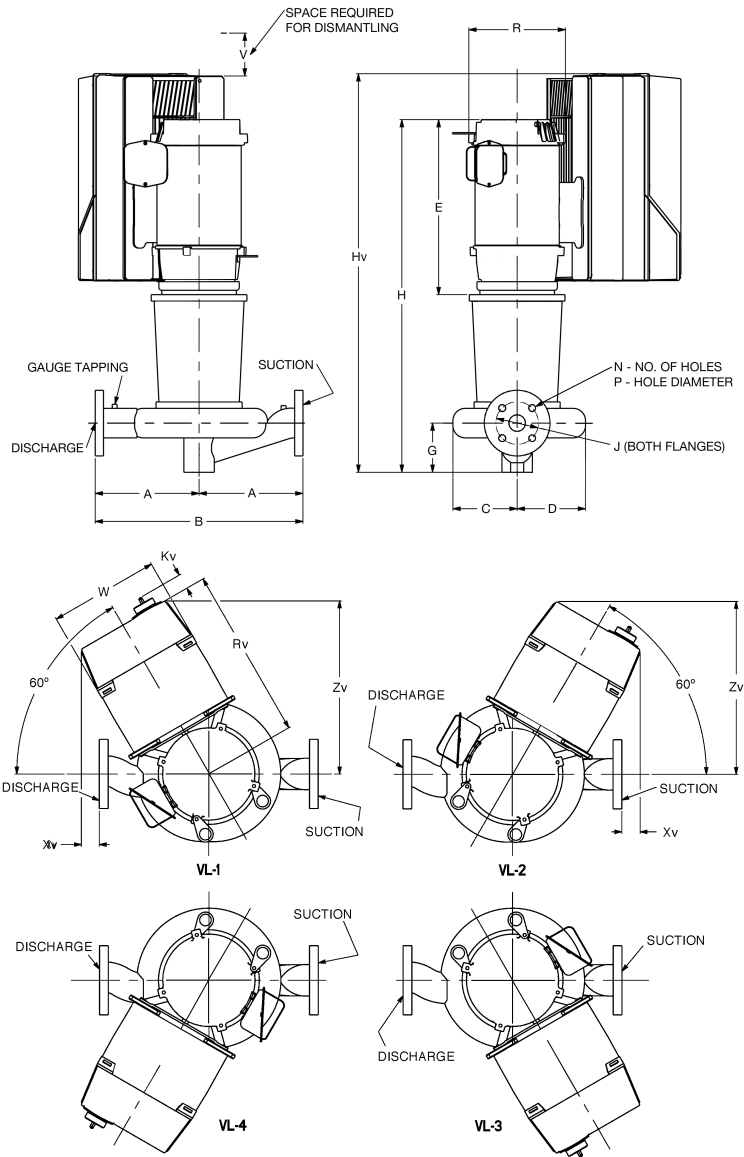
Dimensions are subject to change. Not to be used for construction purposes unless certified.

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



# 6x6x9.5B Series e-80SC In-Line Mounted Centrifugal Pumps With Integrated Technologic® Control

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



# Series e-80SC 6x6x9.5B

B-552.34

## Centrifugal Pump Submittal with Integrated Technologic® Control

DIMENSIONS - Inches (mm)

TC SHAFT MOTORS

| MOTOR FRAME | VFD | Rv             | Zv             | W              | Hv              | Xv             |
|-------------|-----|----------------|----------------|----------------|-----------------|----------------|
| 213TC       | A5  | 13.53<br>(344) | 13.83<br>(351) | 9.50<br>(241)  | 36.31<br>(922)  | 6.25<br>(159)  |
|             | B1  | 15.82<br>(402) | 15.43<br>(392) | 9.50<br>(241)  | 37.56<br>(954)  | 7.85<br>(199)  |
|             | B2  | 15.82<br>(402) | 15.43<br>(392) | 9.50<br>(241)  | 43.30<br>(1100) | 7.85<br>(199)  |
| 215TC       | A5  | 13.53<br>(344) | 13.83<br>(351) | 9.50<br>(241)  | 36.31<br>(922)  | 6.25<br>(159)  |
|             | B1  | 15.83<br>(402) | 15.84<br>(402) | 9.50<br>(241)  | 37.72<br>(958)  | 5.10<br>(130)  |
|             | B2  | 15.83<br>(402) | 15.84<br>(402) | 9.50<br>(241)  | 43.46<br>(1104) | 5.10<br>(130)  |
|             | C1  | 17.80<br>(452) | 19.04<br>(484) | 12.10<br>(307) | 45.48<br>(1155) | 8.30<br>(211)  |
| 254TC       | B1  | 16.83<br>(427) | 16.70<br>(424) | 9.50<br>(241)  | 42.92<br>(1090) | 4.61<br>(117)  |
|             | B2  | 16.83<br>(427) | 16.70<br>(424) | 9.50<br>(241)  | 47.38<br>(1203) | 4.61<br>(117)  |
|             | C1  | 18.80<br>(477) | 19.90<br>(506) | 12.10<br>(307) | 48.64<br>(1235) | 7.81<br>(198)  |
| 256TC       | B1  | 16.83<br>(427) | 16.70<br>(424) | 9.50<br>(241)  | 42.94<br>(1091) | 4.61<br>(117)  |
|             | B2  | 16.83<br>(427) | 16.70<br>(424) | 9.50<br>(241)  | 47.40<br>(1204) | 4.61<br>(117)  |
|             | C1  | 18.80<br>(477) | 19.90<br>(506) | 12.10<br>(307) | 48.66<br>(1236) | 7.81<br>(198)  |
|             | C2  | 19.58<br>(497) | 22.20<br>(564) | 14.60<br>(371) | 53.32<br>(1354) | 10.11<br>(257) |
| 284TC       | B1  | 17.58<br>(446) | 17.36<br>(441) | 9.50<br>(241)  | 46.06<br>(1170) | 4.24<br>(108)  |
|             | B2  | 17.58<br>(446) | 17.36<br>(441) | 9.50<br>(241)  | 50.52<br>(1283) | 4.24<br>(108)  |
|             | C1  | 19.58<br>(497) | 19.63<br>(498) | 12.09<br>(307) | 51.79<br>(1316) | 3.23<br>(82)   |
|             | C2  | 20.36<br>(517) | 21.93<br>(557) | 14.59<br>(371) | 54.94<br>(1396) | 5.53<br>(141)  |
| 286TC       | B2  | 17.58<br>(446) | 17.36<br>(441) | 9.50<br>(241)  | 50.89<br>(1293) | 4.24<br>(108)  |
|             | C1  | 19.58<br>(497) | 19.63<br>(498) | 12.09<br>(307) | 53.29<br>(1354) | 3.23<br>(82)   |
|             | C2  | 20.36<br>(517) | 21.93<br>(557) | 14.59<br>(371) | 56.44<br>(1434) | 5.53<br>(141)  |

Kv=2 (50)

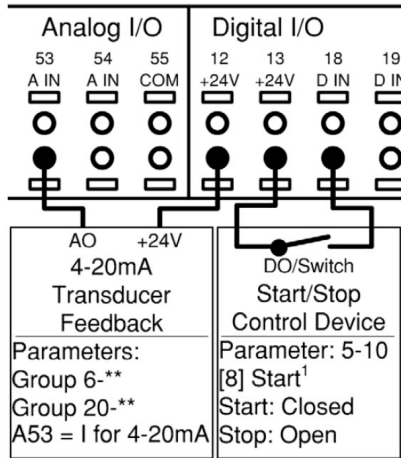


# Pressure Sensor/Transmitter For Pumps with TECHNOLOGIC® Drives

## 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

## TECHNOLOGIC ANALOG SENSOR WIRING



## B&G PART NUMBERS

- S13203 Pressure range: 0-100 psi (0-689 kPa)
- S13204 Pressure range: 0-300 psi (0-2068 kPa)

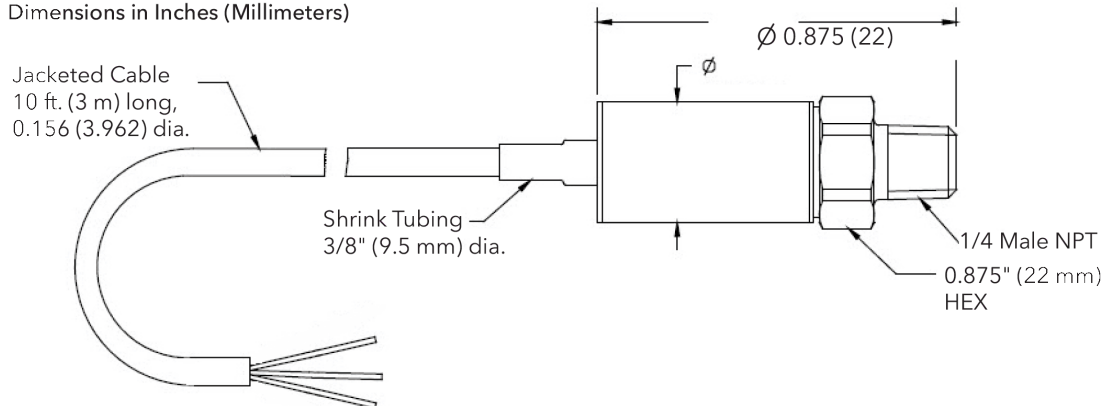
Consult factory for other ranges.

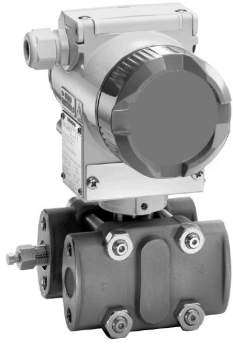
## INSTALLATION CONSIDERATIONS

- 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)



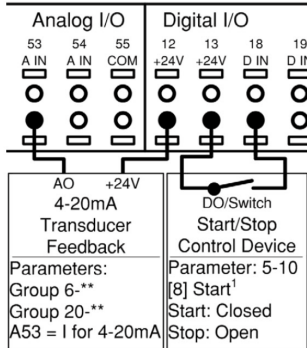


# Differential Pressure Sensor/ Transmitter For Pumps with TECHNOLOGIC® Drives

## 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

## TECHNOLOGIC ANALOG SENSOR WIRING



## 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)

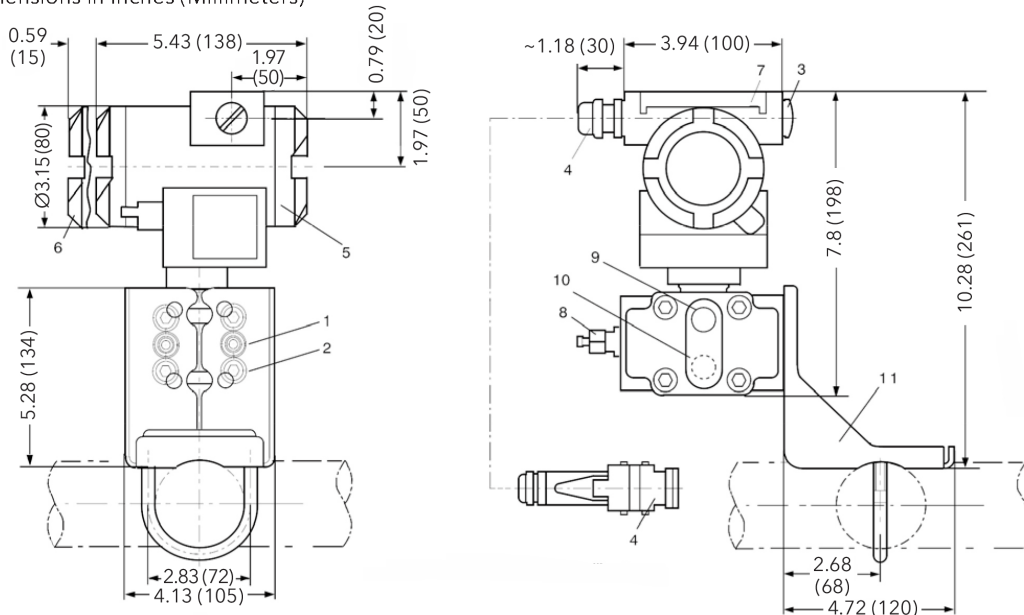
Consult factory for other ranges.

## 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

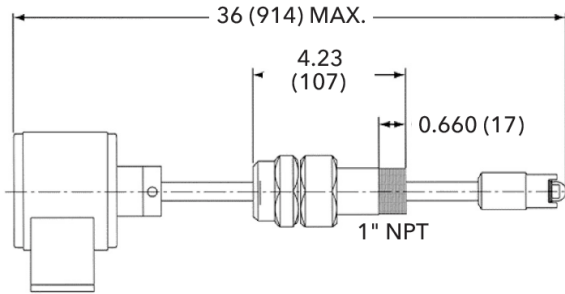
The rugged Bell & Gossett Flow Sensor/Transmitter precisely measures system flow and transmits a proportional 4 to 20 mA DC signal to the Technologic Controller for display or program calculations.

### FEATURES

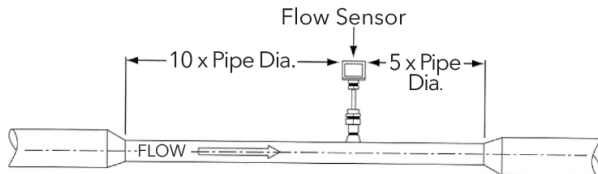
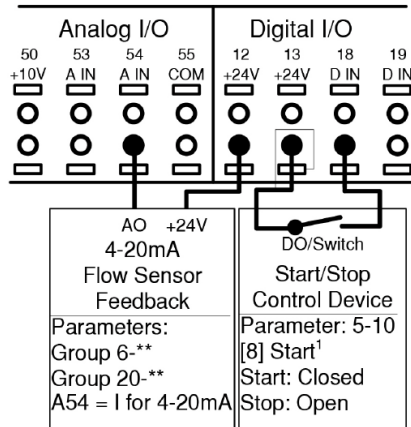
- Suitable for mounting in vertical pipe
- Suitable for mounting in horizontal pipe within 45° of top dead center
- Non-magnetically sensed, non-fouling paddle wheel
- NEMA 4X Transmitter Enclosure
- Maximum Pressure Ratings:
  - 1000 psi @ 100°F, 900 psi @ 200°F,
  - 750 psi @ 300°F (6895 kPa @ 38°C,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

### DIMENSIONAL INFORMATION

Dimensions in Inches (Millimeters)



### TECHNOLOGIC ANALOG SENSOR WIRING



### 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.

| CALIBRATION CHART |            |                        |
|-------------------|------------|------------------------|
| B&G Part No.      | Pipe Size  | Max. Flow              |
| 137411            | 3" Sch 40  | 250 gpm (16 l/sec)     |
| 137412            | 4" Sch 40  | 400 gpm (25 l/sec)     |
| 137413            | 6" Sch 40  | 850 gpm (54 l/sec)     |
| 137414            | 8" Sch 40  | 1750 gpm (110 l/sec)   |
| 137415            | 10" Sch 40 | 3150 gpm (199 l/sec)   |
| 137416            | 12" Sch 40 | 5000 gpm (315 l/sec)   |
| 137417            | 14" Sch 40 | 6400 gpm (404 l/sec)   |
| 137418            | 16" Sch 40 | 9100 gpm (574 l/sec)   |
| 137419            | 18" Sch 40 | 12400 gpm (782 l/sec)  |
| 137420            | 20" Sch 40 | 16500 gpm (1041 l/sec) |

Consult factory for custom flow range calibration.