



JOB:

REPRESENTATIVE:

UNIT TAG:

ORDER NO.

DATE:

ENGINEER:

SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



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

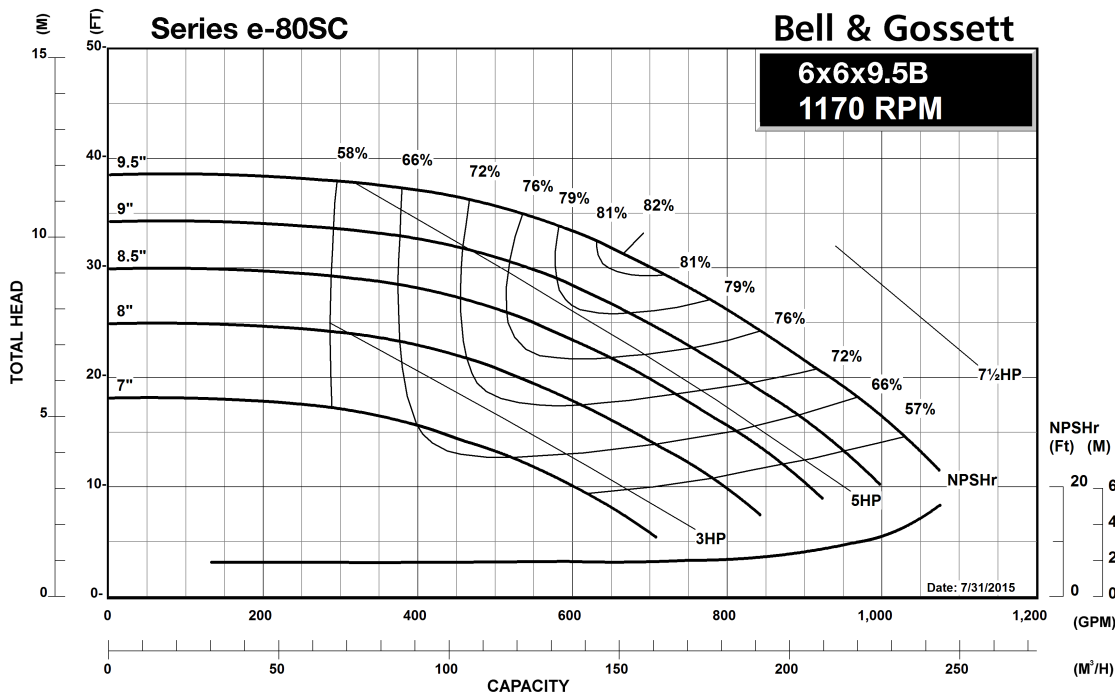
- ☐ In-Line Piping ☐ Flange Supports

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#





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

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FLOW _____ HEAD _____
HP _____ RPM _____
VOLTS _____
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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

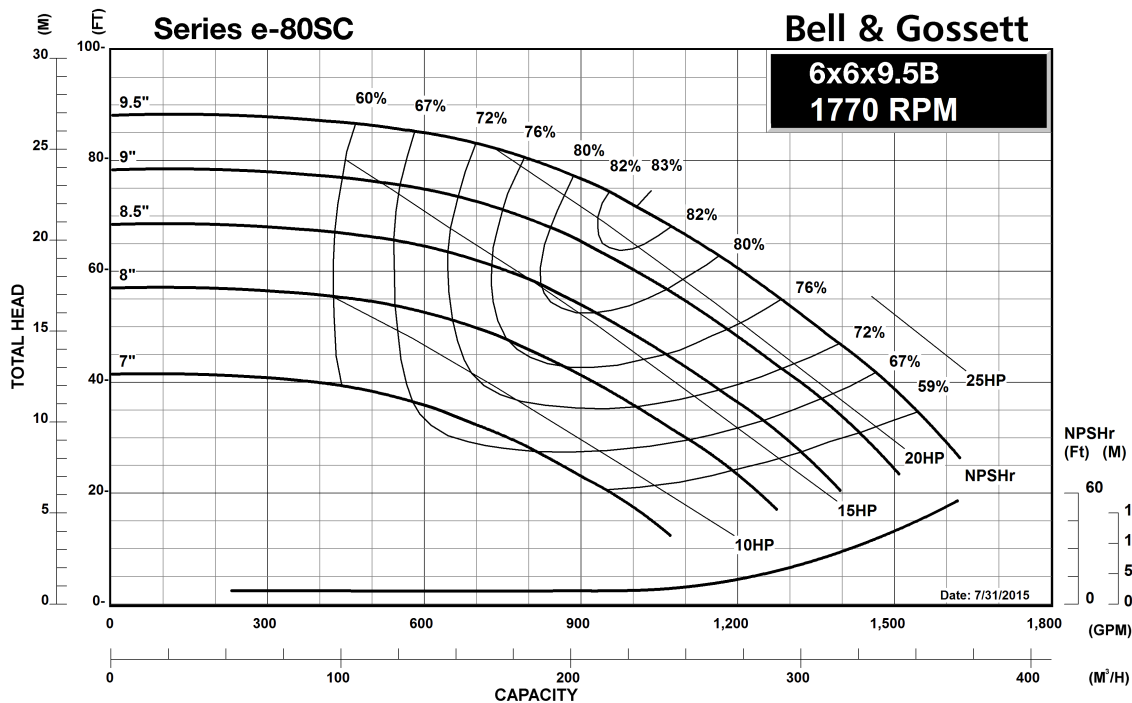
☐ In-Line Piping ☐ Flange Supports

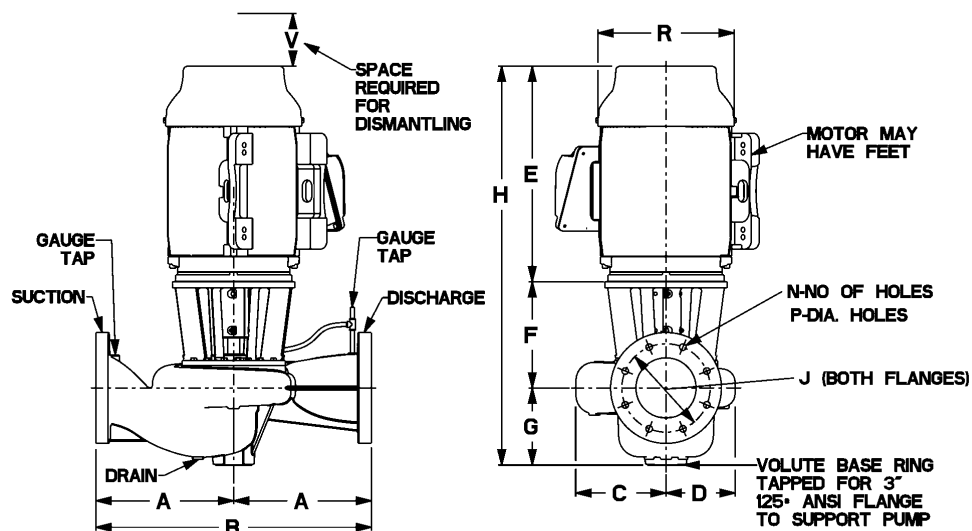
PUMP VARIABLE SPEED CONTROL

☐ 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

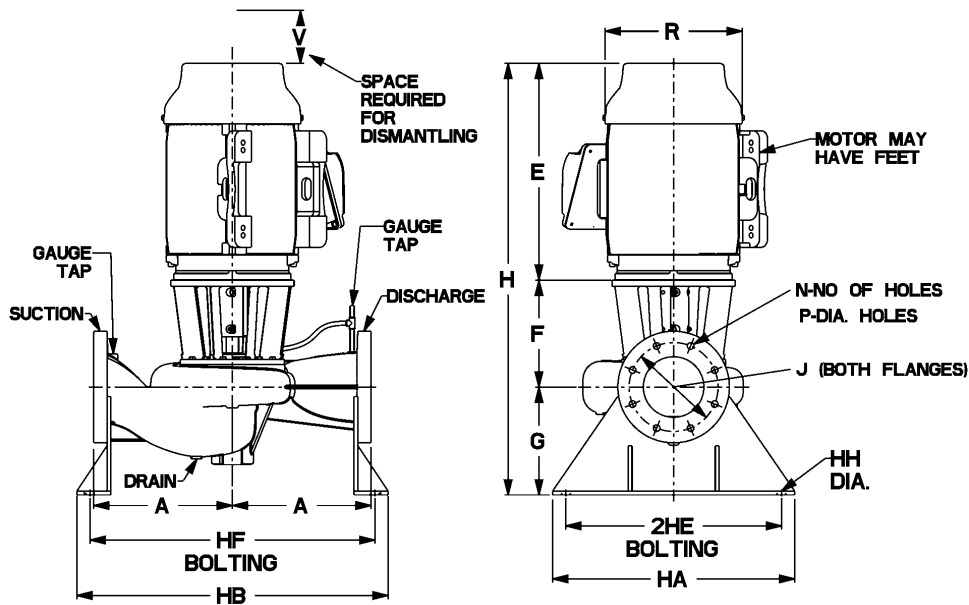
DIMENSIONS - Inches (mm)

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 (425)	33.50 (851)	7.57 (192)	10.67 (271)	14.88 (378)	12.56 (319)	8.88 (225)	36.31 (922)	9.50 (241)	8	0.88 (22)	10.63 (270)	12	0.88 (22)	10.63 (270)	5.50 (140)	0.25	0.25
215TC	16.75 (425)	33.50 (851)	7.57 (192)	10.67 (271)	14.88 (378)	12.56 (319)	8.88 (225)	36.31 (922)	9.50 (241)	8	0.88 (22)	10.63 (270)	12	0.88 (22)	10.63 (270)	5.50 (140)	0.25	0.25
254TC	16.75 (425)	33.50 (851)	7.57 (192)	10.67 (271)	19.44 (494)	12.56 (319)	8.88 (225)	40.88 (1038)	9.50 (241)	8	0.88 (22)	10.63 (270)	12	0.88 (22)	12.31 (313)	5.50 (140)	0.25	0.25
256TC	16.75 (425)	33.50 (851)	7.57 (192)	10.67 (271)	21.19 (538)	12.56 (319)	8.88 (225)	42.63 (1083)	9.50 (241)	8	0.88 (22)	10.63 (270)	12	0.88 (22)	12.31 (313)	5.50 (140)	0.25	0.25
284TC	16.75 (425)	33.50 (851)	7.57 (192)	10.67 (271)	22.06 (560)	15.13 (384)	8.88 (225)	46.06 (1170)	9.50 (241)	8	0.88 (22)	10.63 (270)	12	0.88 (22)	14.13 (359)	5.50 (140)	0.25	0.25
286TC	16.75 (425)	33.50 (851)	7.57 (192)	10.67 (271)	23.56 (598)	15.13 (384)	8.88 (225)	47.56 (1208)	9.50 (241)	8	0.88 (22)	10.63 (270)	12	0.88 (22)	14.13 (359)	5.50 (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 (425)	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	14.88 (378)	12.56 (319)	8.88 (225)	36.31 (922)	9.50 (241)	8 (22)	0.88 (22)	10.63 (270)	12 (22)	0.88 (22)	10.63 (270)	5.50 (140)	0.25	0.25
215TC	16.75 (425)	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	14.88 (378)	12.56 (319)	8.88 (225)	36.31 (922)	9.50 (241)	8 (22)	0.88 (22)	10.63 (270)	12 (22)	0.88 (22)	10.63 (270)	5.50 (140)	0.25	0.25
254TC	16.75 (425)	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	19.44 (494)	12.56 (319)	8.88 (225)	40.88 (1038)	9.50 (241)	8 (22)	0.88 (22)	10.63 (270)	12 (22)	0.88 (22)	12.31 (313)	5.50 (140)	0.25	0.25
256TC	16.75 (425)	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	21.19 (538)	12.56 (319)	8.88 (225)	42.63 (1083)	9.50 (241)	8 (22)	0.88 (22)	10.63 (270)	12 (22)	0.88 (22)	12.31 (313)	5.50 (140)	0.25	0.25
284TC	16.75 (425)	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	22.06 (560)	15.13 (384)	8.88 (225)	46.06 (1170)	9.50 (241)	8 (22)	0.88 (22)	10.63 (270)	12 (22)	0.88 (22)	14.13 (359)	5.50 (140)	0.25	0.25
286TC	16.75 (425)	34.78 (883)	38.28 (972)	22.50 (572)	26.00 (660)	1.00 (25)	23.56 (598)	15.13 (384)	8.88 (225)	47.56 (1208)	9.50 (241)	8 (22)	0.88 (22)	10.63 (270)	12 (22)	0.88 (22)	14.13 (359)	5.50 (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.

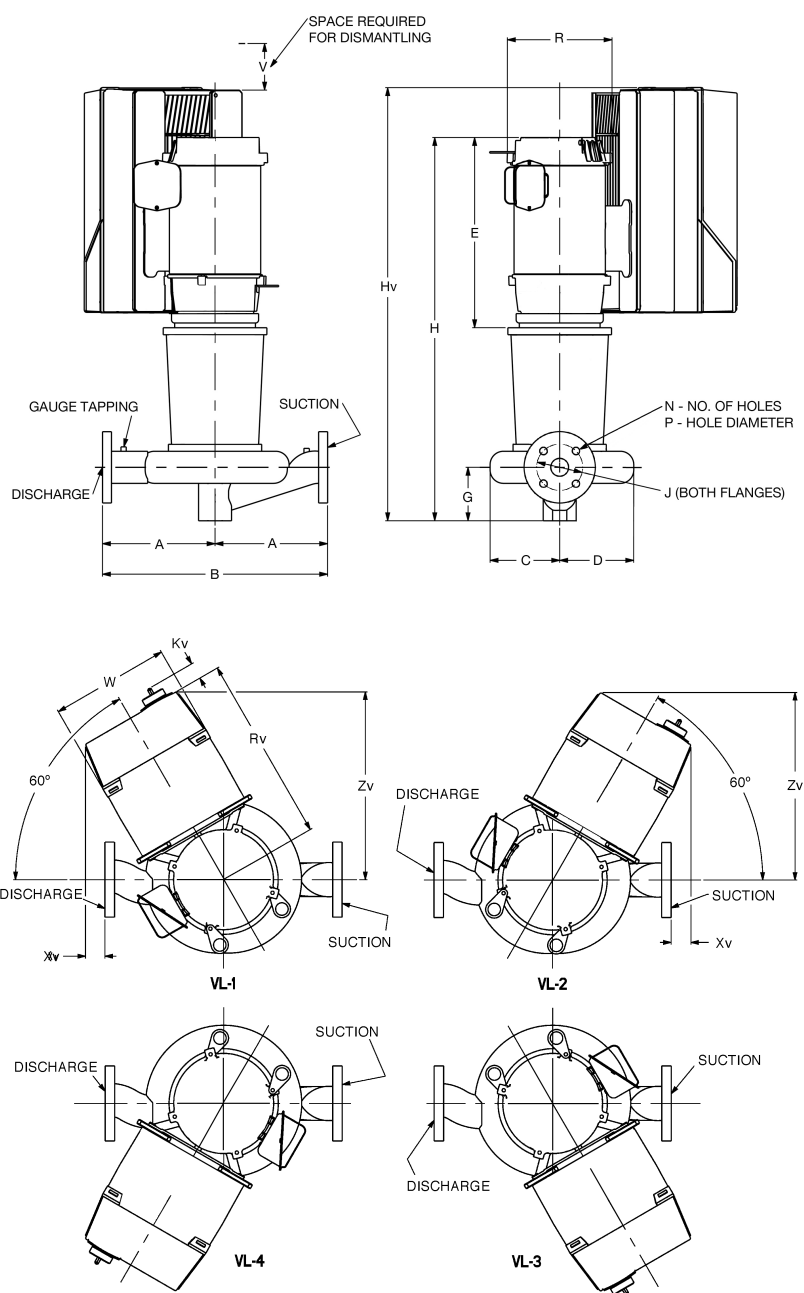


6x6x9.5B Series e-80SC

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

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

Kv=2 (50)



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Bell & Gossett

a xylem brand

D-171A

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)

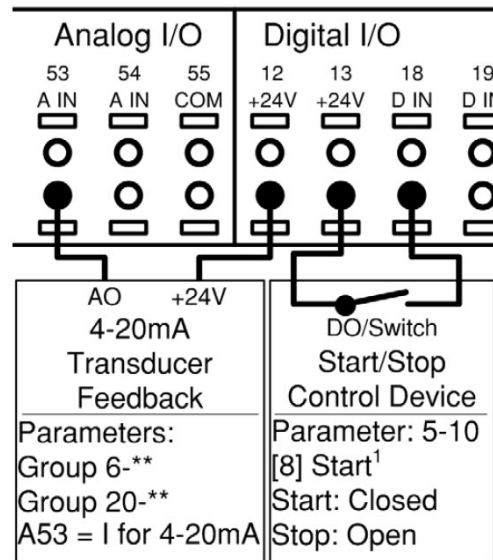
S13204 Pressure range: 0-300 psi (0-2068 kPa)

Consult factory for other ranges.

INSTALLATION CONSIDERATIONS

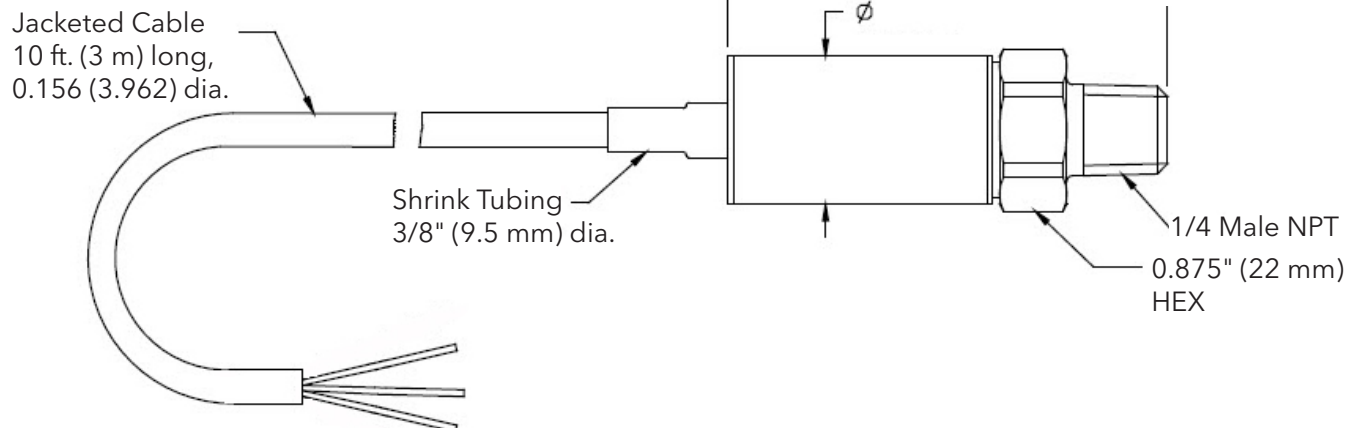
- Standard 24 AWG (0.61 mm dia.) 2 wire shielded cable located in a conduit separate from high voltage wiring
- 24 vdc power supplied from Technologic Controller

TECHNOLOGIC ANALOG SENSOR WIRING



DIMENSIONAL INFORMATION

Dimensions in Inches (Millimeters)



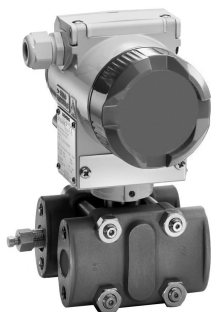


Bell & Gossett

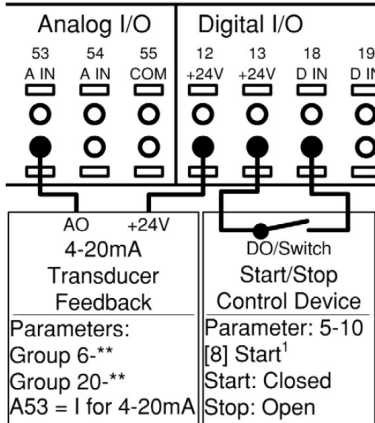
a xylem brand

D-172A

Differential Pressure Sensor/Transmitter for Pumps with TECHNOLOGIC® Drives



TECHNOLOGIC ANALOG SENSOR WIRING



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)

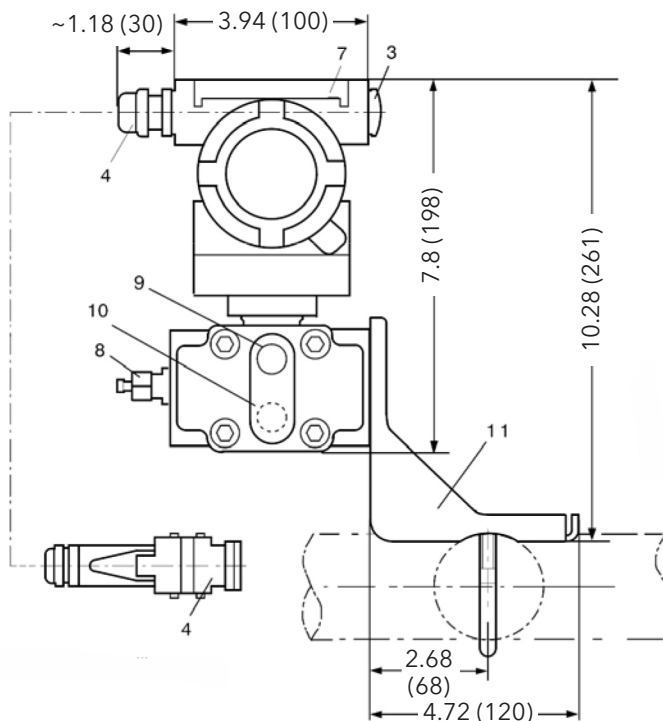
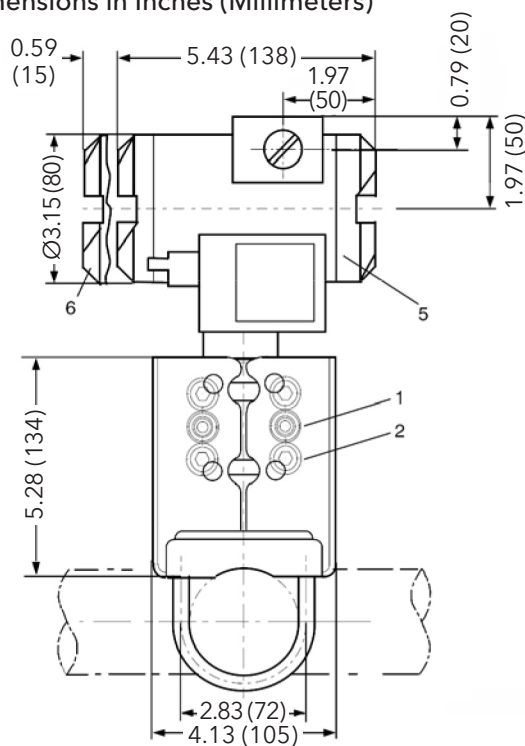
Consult factory for other ranges.

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



Bell & Gossett

a xylem brand

D-164G

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.

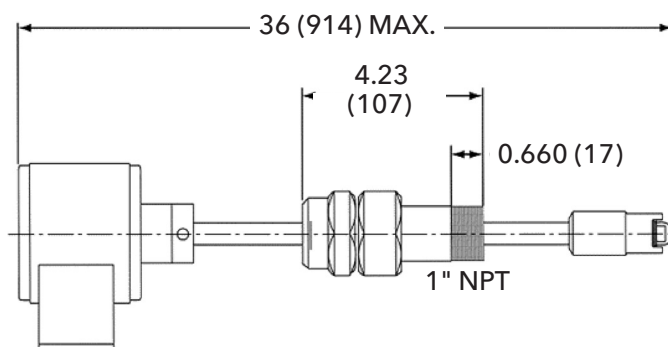
CALIBRATION CHART		
B&G Part No.	Pipe Size	Max. Flow
137411	3" Sch 40	250 gpm (16 l/sec)
137412	4" Sch 40	400 gpm (25 l/sec)
137413	6" Sch 40	850 gpm (54 l/sec)
137414	8" Sch 40	1750 gpm (110 l/sec)
137415	10" Sch 40	3150 gpm (199 l/sec)
137416	12" Sch 40	5000 gpm (315 l/sec)
137417	14" Sch 40	6400 gpm (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.



DIMENSIONAL INFORMATION

Dimensions in Inches (Millimeters)



TECHNOLOGIC ANALOG SENSOR WIRING

