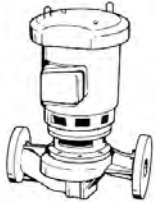


<b>JOB:</b>   <b>UNIT TAG:</b> <b>ENGINEER:</b> <b>CONTRACTOR:</b>	<b>REPRESENTATIVE:</b>   <b>ORDER NO.</b> <b>SUBMITTED BY:</b> <b>APPROVED BY:</b>	<b>DATE:</b> <b>DATE:</b> <b>DATE:</b>
---	---	--



# 1½x1½x7B

## Series 80®

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

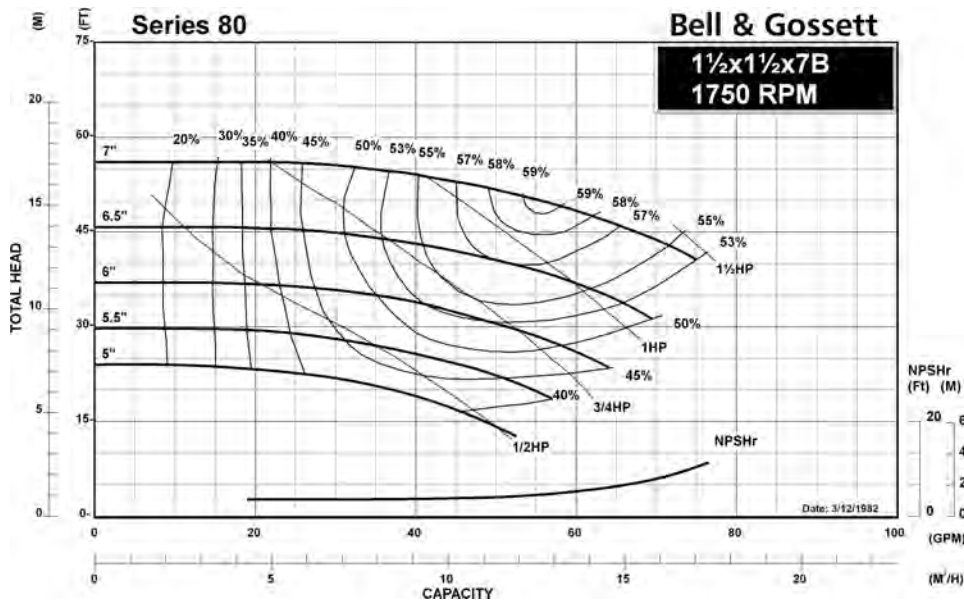
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

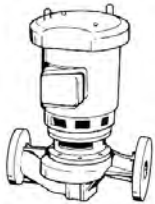
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 1½x1½x7B

## Series 80®

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

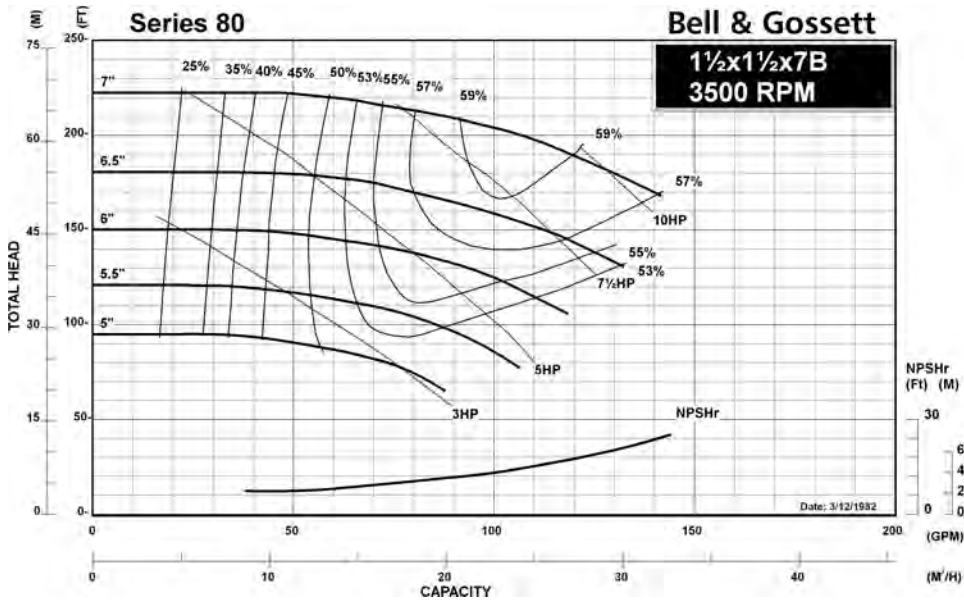
- BRONZE FITTED     ALL IRON

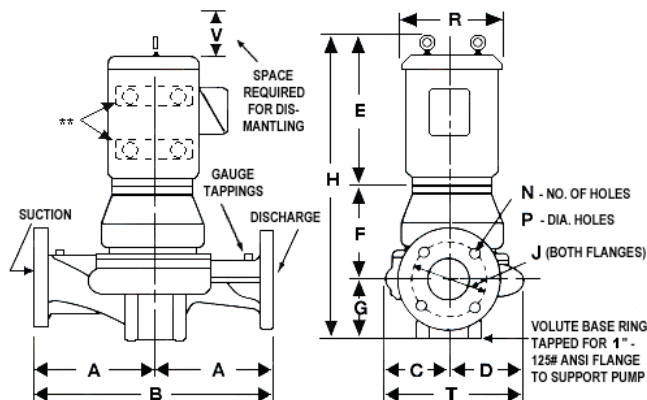
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	1-1/2"	13/16" (21)	6" (152)
Suction	1-1/2"	13/16" (21)	6" (152)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
143JM	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	11-5/8 (295)	4-5/8 (117)	4-3/8 (111)	20-5/8 (524)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	1-1/2 (38)	9-3/8 (238)	4 (102)
145JM	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	12-5/8 (321)	4-5/8 (117)	4-3/8 (111)	21-5/8 (549)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	1-1/2 (38)	9-3/8 (238)	4 (102)
182JM	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	15-5/16 (389)	4-5/8 (117)	4-3/8 (111)	24-3/8 (619)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	1 (25)	9-3/8 (238)	4 (102)
184JM	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	15-5/16 (389)	4-5/8 (117)	4-3/8 (111)	24-3/8 (619)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	1 (25)	9-3/8 (238)	4 (102)
213JM	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	19-1/4 (489)	4-5/8 (117)	4-3/8 (111)	28-1/4 (718)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	-	9-3/8 (238)	4 (102)
215JM	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	19-1/4 (489)	4-5/8 (117)	4-3/8 (111)	28-1/4 (718)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	-	9-3/8 (238)	4 (102)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
143JP	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	11-5/8 (295)	7-3/4 (197)	4-3/8 (111)	23-3/4 (603)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	1-1/2 (38)	9-3/8 (238)	4 (102)
145JP	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	12-5/8 (321)	7-3/4 (197)	4-3/8 (111)	24-3/4 (629)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	1-1/2 (38)	9-3/8 (238)	4 (102)
182JP	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	15-5/16 (389)	7-3/4 (197)	4-3/8 (111)	27-1/2 (698)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	1 (25)	9-3/8 (238)	4 (102)
184JP	8 (203)	16 (406)	4-5/8 (117)	4-3/4 (121)	15-5/16 (389)	7-3/4 (197)	4-3/8 (111)	27-1/2 (698)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	1 (25)	9-3/8 (238)	4 (102)

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

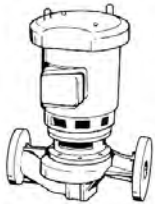
NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E & H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



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



# 1½x1½x7B

## Series 80®

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

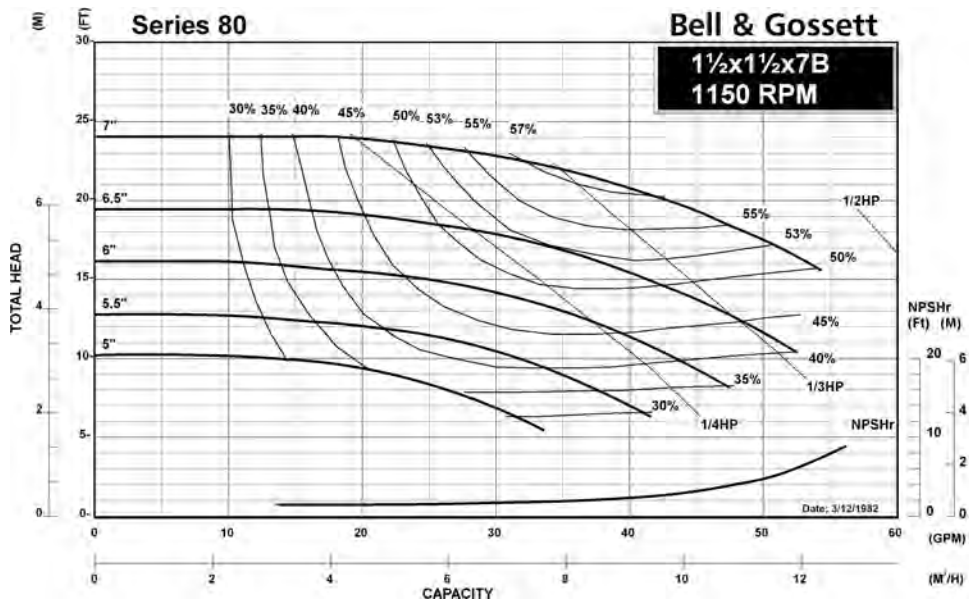
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)

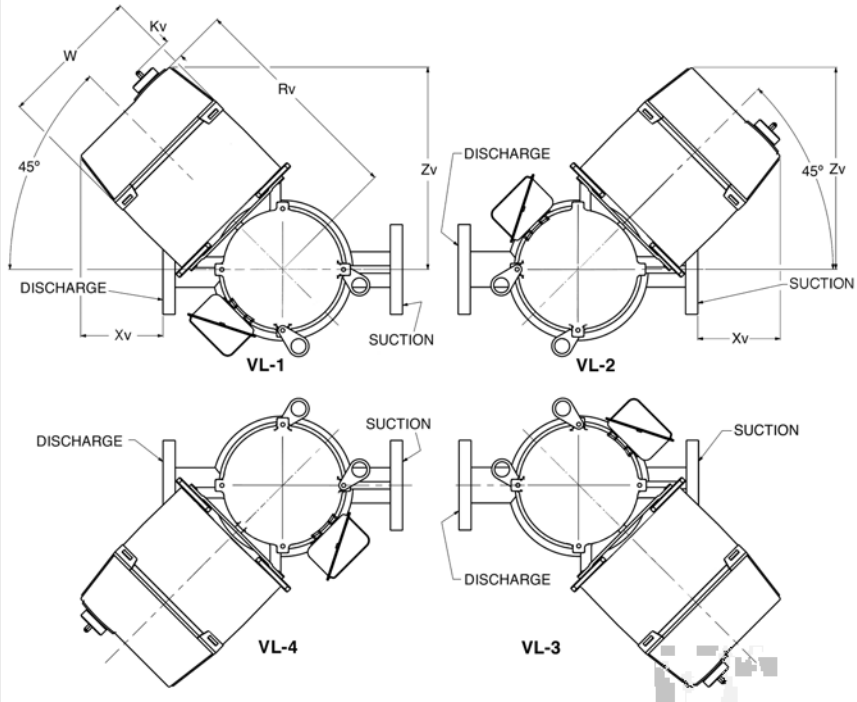
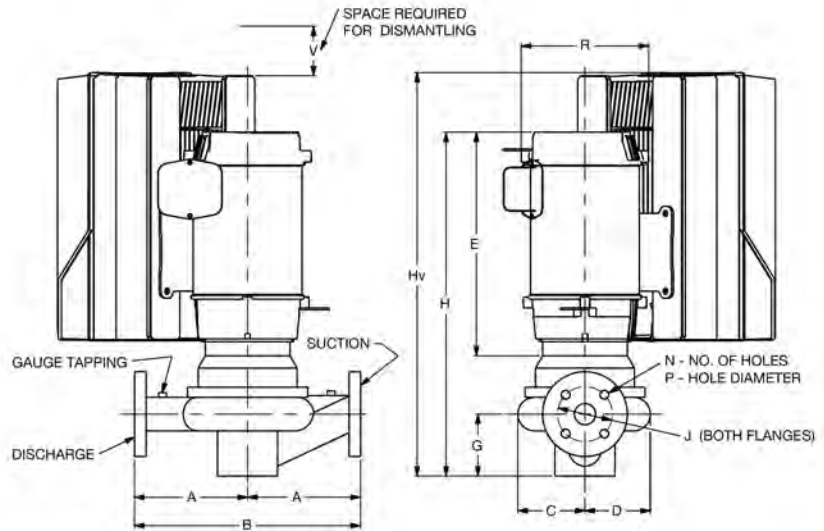




# 1 1/2x1 1/2x7B Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 1 1/2x1 1/2x7B

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

### With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

#### DIMENSIONS – Inches (mm)

#### STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143JM	8 (203)	16 (406)	11-5/8 (295)	4-3/8 (111)	20-5/8 (524)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	27-17/64 (692)	3-21/64 (84)
145JM	8 (203)	16 (406)	12-5/8 (321)	4-3/8 (111)	21-5/8 (549)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	28-17/64 (718)	3-21/64 (84)
182JM	8 (203)	16 (406)	15-5/16 (389)	4-3/8 (111)	24-3/8 (619)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	27-17/32 (699)	4-1/32 (102)
184JM	8 (203)	16 (406)	15-5/16 (389)	4-3/8 (111)	24-3/8 (619)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	27-17/32 (699)	4-1/32 (102)
													B1	15-5/64 (383)	13-11/16 (348)	9-1/2 (241)	28-19/32 (726)	5-11/16 (144)
213JM	8 (203)	16 (406)	19-1/4 (489)	4-3/8 (111)	28-1/4 (718)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	30-53/64 (783)	4-9/16 (116)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	32-27/64 (824)	6-7/32 (158)
215JM	8 (203)	16 (406)	19-1/4 (489)	4-3/8 (111)	28-1/4 (718)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	29-23/64 (746)	4-9/16 (116)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	30-57/64 (785)	6-7/32 (158)

#### STUFFING BOX 80-PF, 80-S, 80-D

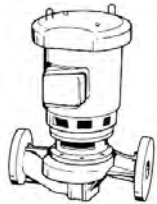
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143JP	8 (203)	16 (406)	11-5/8 (295)	4-3/8 (111)	23-3/4 (603)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	30-25/64 (772)	3-21/64 (84)
145JP	8 (203)	16 (406)	12-5/8 (321)	4-3/8 (111)	24-3/4 (629)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	31-25/64 (797)	3-21/64 (84)
182JP	8 (203)	16 (406)	15-5/16 (389)	4-3/8 (111)	27-1/2 (698)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	30-21/32 (779)	4-1/32 (102)
184JP	8 (203)	16 (406)	15-5/16 (389)	4-3/8 (111)	27-1/2 (698)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	30-21/32 (779)	4-1/32 (102)
													B1	15-5/64 (383)	13-11/16 (348)	9-1/2 (241)	31-23/32 (805)	5-11/16 (144)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.

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



# 1½ x 1½ x 9½

## Series 80®

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

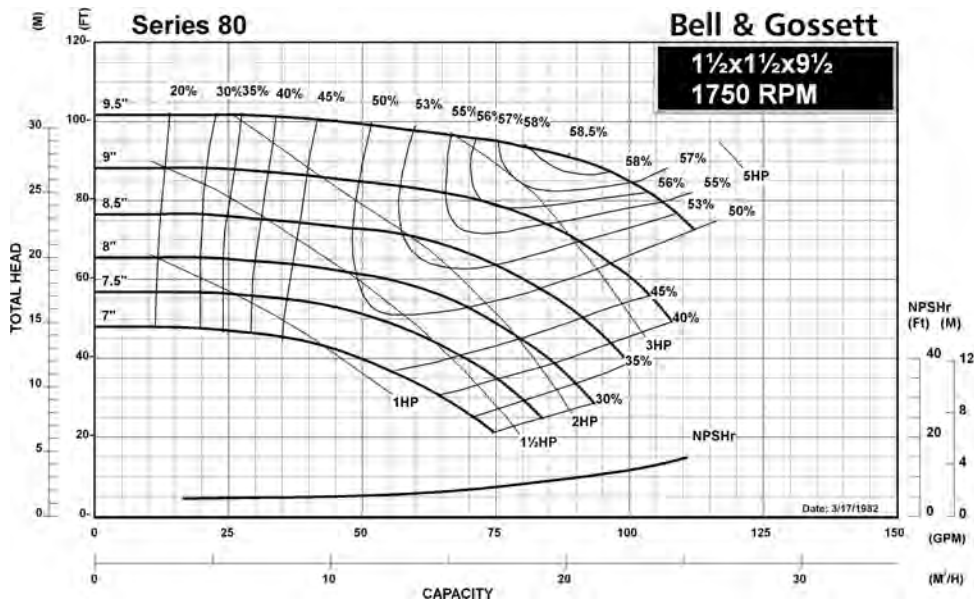
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

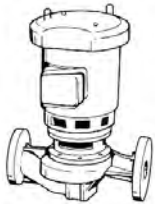
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 1½ x 1½ x 9½

## Series 80®

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

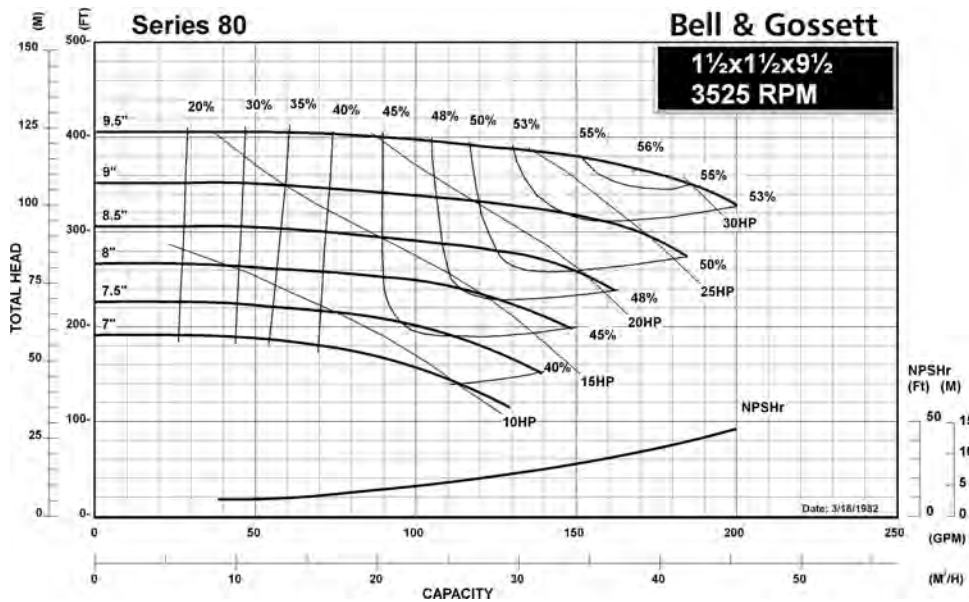
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

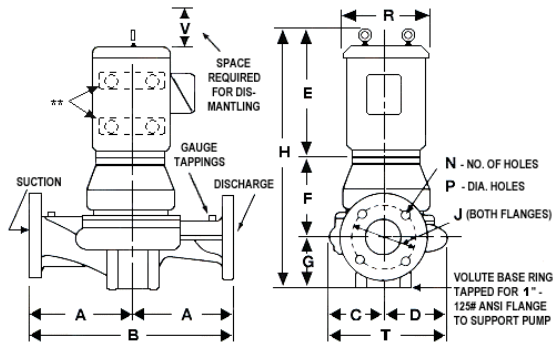
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)







FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	1-1/2"	13/16 (21)	6 (187)
Suction	1-1/2"	13/16 (21)	6 (152)

\*\* Motor may be supplied with feet

**DIMENSIONS - Inches (mm)**

**STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
143	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	11-5/8 (295)	4-11/16 (119)	4-1/2 (114)	20-7/8 (530)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	1-1/2 (38)	12-1/8 (308)	4 (102)
145	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	12-5/8 (321)	4-11/16 (119)	4-1/2 (114)	21-7/8 (556)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	1-1/2 (38)	12-1/8 (308)	4 (102)
182	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	15-5/16 (389)	4-11/16 (119)	4-1/2 (114)	24-1/2 (622)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	1 (25)	12-1/8 (308)	4 (102)
184	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	15-5/16 (389)	4-11/16 (119)	4-1/2 (114)	24-1/2 (622)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	1 (25)	12-1/8 (308)	4 (102)
213	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	19-1/4 (489)	4-11/16 (119)	4-1/2 (114)	28-1/2 (724)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	-	12-1/8 (308)	4 (102)
215	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	19-1/4 (489)	4-11/16 (119)	4-1/2 (114)	28-1/2 (724)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	-	12-1/8 (308)	4 (102)
254	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	24-1/8 (613)	8-9/16 (217)	4-1/2 (114)	37-1/4 (946)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	17 (432)	-	12-1/8 (308)	4 (102)
256	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	24-1/8 (613)	8-9/16 (217)	4-1/2 (114)	37-1/4 (946)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	17 (432)	-	12-1/8 (308)	4 (102)
284	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	23-5/8 (600)	8-9/16 (217)	4-1/2 (114)	36-3/4 (933)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	16-1/8 (410)	4-5/8 (117)	12-1/8 (308)	4 (102)
286	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	25-1/8 (638)	8-9/16 (217)	4-1/2 (114)	38-1/4 (972)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	16-1/8 (410)	4-5/8 (117)	12-1/8 (308)	4 (102)

**STUFFING BOX 80-PF, 80-S, 80-D**

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
143	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	11-5/8 (295)	7-13/16 (198)	4-1/2 (114)	24 (610)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	1-1/2 (38)	12-1/8 (308)	4 (102)
145	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	12-5/8 (321)	7-11/16 (195)	4-1/2 (114)	25 (635)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	1-1/2 (38)	12-1/8 (308)	4 (102)
182	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	15-5/16 (389)	7-13/16 (198)	4-1/2 (114)	27-5/8 (702)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	1 (25)	12-1/8 (308)	4 (102)
184	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	15-5/16 (389)	7-13/16 (198)	4-1/2 (114)	27-5/8 (702)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	1 (25)	12-1/8 (308)	4 (102)
213	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	19-1/4 (489)	8-9/16 (217)	4-1/2 (114)	32-3/8 (822)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	-	12-1/8 (308)	4 (102)
215	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	19-1/4 (489)	8-9/16 (217)	4-1/2 (114)	32-3/8 (822)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	-	12-1/8 (308)	4 (102)
254	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	24-1/8 (613)	8-9/16 (217)	4-1/2 (114)	37-1/4 (946)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	17 (432)	-	12-1/8 (308)	4 (102)
256	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	24-1/8 (613)	8-9/16 (217)	4-1/2 (114)	37-1/4 (946)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	17 (432)	-	12-1/8 (308)	4 (102)
284	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	23-5/8 (600)	8-9/16 (217)	4-1/2 (114)	36-3/4 (933)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	16-1/8 (410)	4-5/8 (117)	12-1/8 (308)	4 (102)
286	9-1/2 (241)	19 (483)	5-7/8 (149)	6-1/4 (159)	25-1/8 (638)	8-9/16 (217)	4-1/2 (114)	38-1/8 (968)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	16-1/8 (410)	4-5/8 (117)	12-1/8 (308)	4 (102)

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

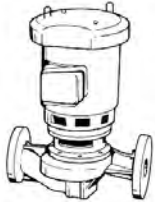
NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E & H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



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



# 1½ x 1½ x 9½

## Series 80®

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

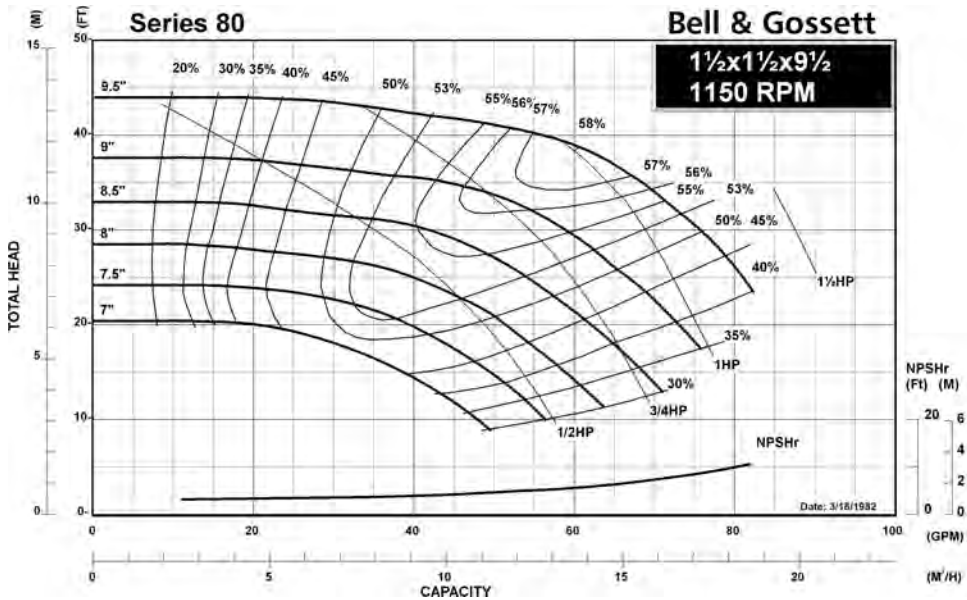
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)

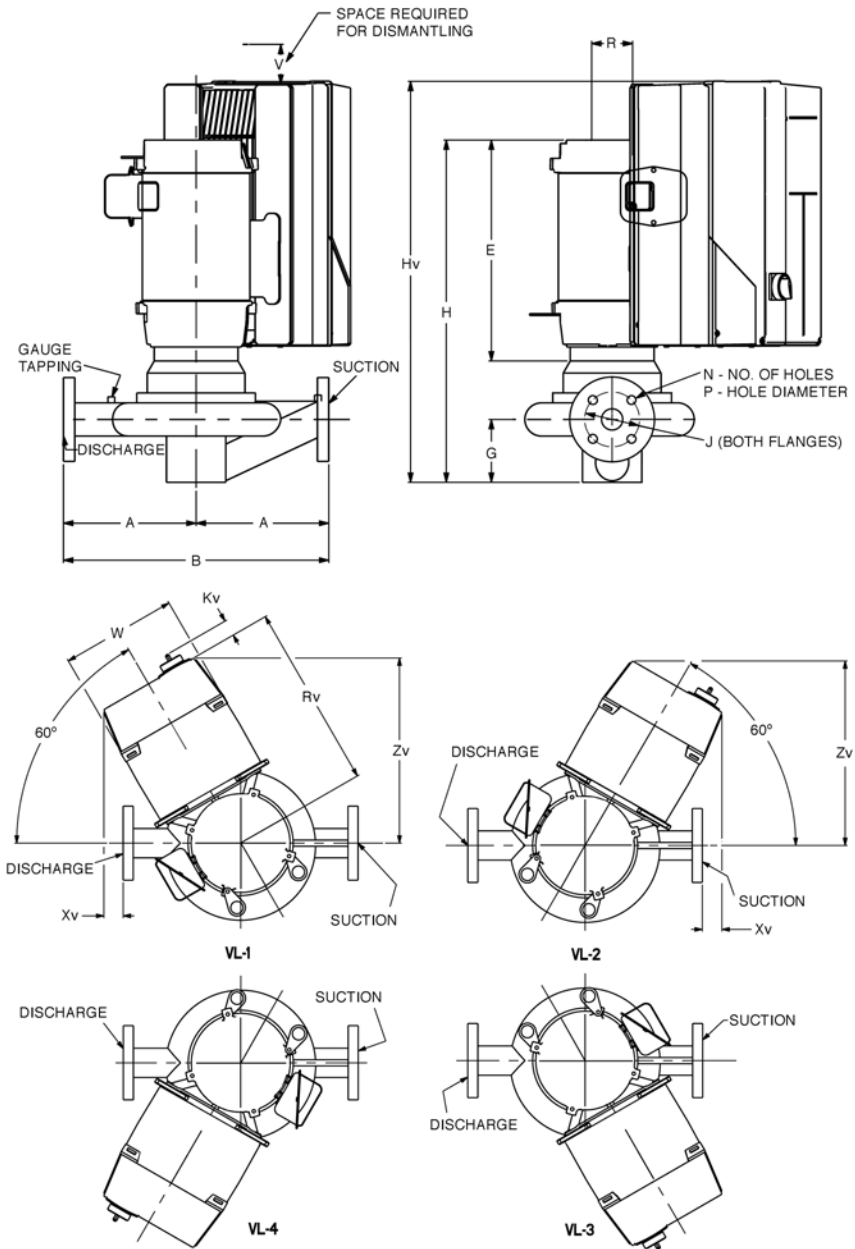




# 1½x1½x9½ Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 1½x1½x9½ Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143	9-1/2 (241)	19 (483)	11-5/8 (295)	4-1/2 (114)	20-7/8 (530)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	12-5/16 (313)	9-1/2 (241)	27-33/64 (699)	1/16 (2)
145	9-1/2 (241)	19 (483)	12-5/8 (321)	4-1/2 (114)	21-7/8 (556)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	12-5/16 (313)	9-1/2 (241)	28-33/64 (724)	1/16 (2)
182	9-1/2 (241)	19 (483)	15-5/16 (389)	4-1/2 (114)	24-1/2 (622)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	27-21/32 (702)	9/16 (14)
184	9-1/2 (241)	19 (483)	15-5/16 (389)	4-1/2 (114)	24-1/2 (622)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	27-21/32 (702)	9/16 (14)
213	9-1/2 (241)	19 (483)	19-1/4 (489)	4-1/2 (114)	28-1/2 (724)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	31-5/64 (790)	15/16 (24)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	32-43/64 (830)	2-1/8 (54)
215	9-1/2 (241)	19 (483)	19-1/4 (489)	4-1/2 (114)	28-1/2 (724)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	31-9/64 (791)	2-1/8 (54)
254	9-1/2 (241)	19 (483)	24-1/8 (613)	4-1/2 (114)	37-1/4 (946)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	40-1/4 (1022)	2-5/8 (66)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	44-45/64 (1135)	2-5/8 (66)
256	9-1/2 (241)	19 (483)	24-1/8 (613)	4-1/2 (114)	37-1/4 (946)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	39-5/8 (1006)	2-5/8 (66)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	44-5/64 (1120)	2-5/8 (66)
													C1	18-53/64 (478)	18-31/32 (482)	12-3/32 (307)	44-31/32 (1142)	4-17/32 (115)
284	9-1/2 (241)	19 (483)	23-5/8 (600)	4-1/2 (114)	36-3/4 (933)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	39 (991)	3 (76)
													B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	43-29/64 (1104)	3 (76)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	45-55/64 (1165)	4-29/32 (125)
286	9-1/2 (241)	19 (483)	25-1/8 (638)	4-1/2 (114)	38-1/4 (972)	3-7/8 (98)	4 (102)	5/8 (16)	4-1/2 (114)	4 (102)	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	44-61/64 (1142)	3 (76)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	47-23/64 (1203)	4-29/32 (125)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 1 1/2 X 1 1/2 X 9 1/2 Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

## STUFFING BOX 80-PF, 80-S, 80-D

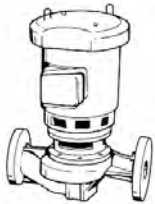
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143	9-1/2 (241)	19 (483)	11-5/8 (295)	4-1/2 (114)	24 (610)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	12-5/16 (313)	9-1/2 (241)	30-41/64 (778)	1/16 (2)
145	9-1/2 (241)	19 (483)	12-5/8 (321)	4-1/2 (114)	25 (635)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	12-5/16 (313)	9-1/2 (241)	31-41/64 (804)	1/16 (2)
182	9-1/2 (241)	19 (483)	15-5/16 (389)	4-1/2 (114)	27-5/8 (702)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	30-25/32 (782)	9/16 (14)
184	9-1/2 (241)	19 (483)	15-5/16 (389)	4-1/2 (114)	27-5/8 (702)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	30-25/32 (782)	9/16 (14)
213	9-1/2 (241)	19 (483)	19-1/4 (489)	4-1/2 (114)	32-3/8 (822)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	34-61/64 (888)	15/16 (24)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	36-35/64 (928)	2-1/8 (54)
215	9-1/2 (241)	19 (483)	19-1/4 (489)	4-1/2 (114)	32-3/8 (822)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	14 (356)	B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	35-1/64 (890)	2-1/8 (54)
254	9-1/2 (241)	19 (483)	24-1/8 (613)	4-1/2 (114)	37-1/4 (946)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	40-1/4 (1022)	2-5/8 (66)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	44-45/64 (1135)	2-5/8 (66)
256	9-1/2 (241)	19 (483)	24-1/8 (613)	4-1/2 (114)	37-1/4 (946)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	39-5/8 (1006)	2-5/8 (66)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	44-5/64 (1120)	2-5/8 (66)
													C1	18-53/64 (478)	18-31/32 (482)	12-3/32 (307)	44-31/32 (1142)	4-17/32 (115)
284	9-1/2 (241)	19 (483)	23-5/8 (600)	4-1/2 (114)	36-3/4 (933)	3-7/8 (98)	4	5/8 (16)	4-1/2 (114)	4	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	39 (991)	3 (76)
													B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	43-29/64 (1104)	3 (76)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	45-55/64 (1165)	4-29/32 (125)
286	9-1/2 (241)	19 (483)	25-1/8 (638)	4-1/2 (114)	38-1/8 (968)	3-7/8 (98)	4 (102)	5/8 (16)	4-1/2 (114)	4 (102)	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	44-53/64 (1139)	3 (76)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	47-15/64 (1200)	4-29/32 (125)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.

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



## 2½x2½x7 Series 80® In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 APPROX. WEIGHT \_\_\_\_\_  
 SPECIALS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

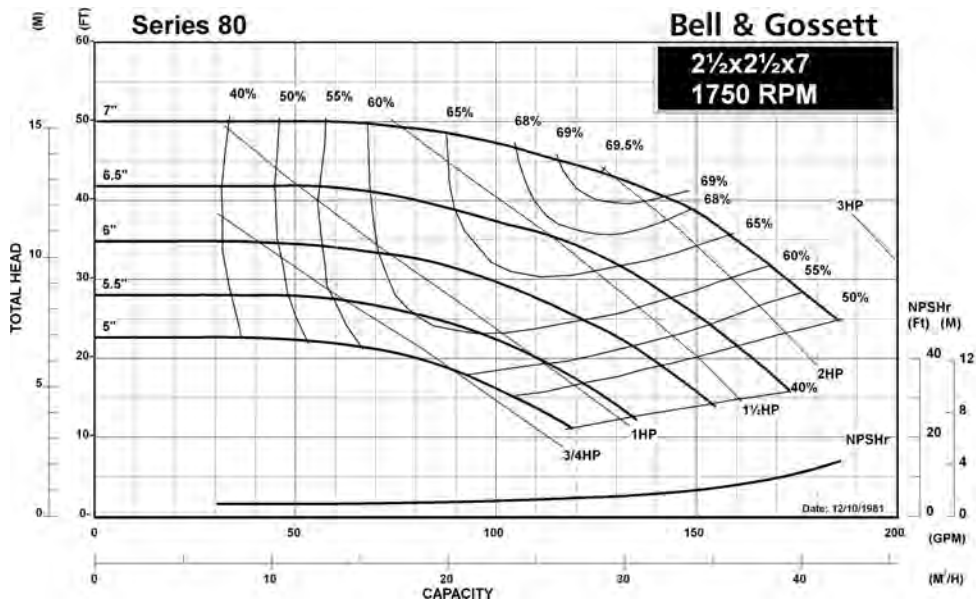
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

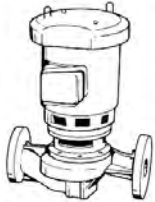
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling  
 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)  
 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)  
 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)  
 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)  
 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source  
 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



## 2<sup>1</sup>/<sub>2</sub> x 2<sup>1</sup>/<sub>2</sub> x 7 Series 80<sup>®</sup> In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 APPROX. WEIGHT \_\_\_\_\_  
 SPECIALS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

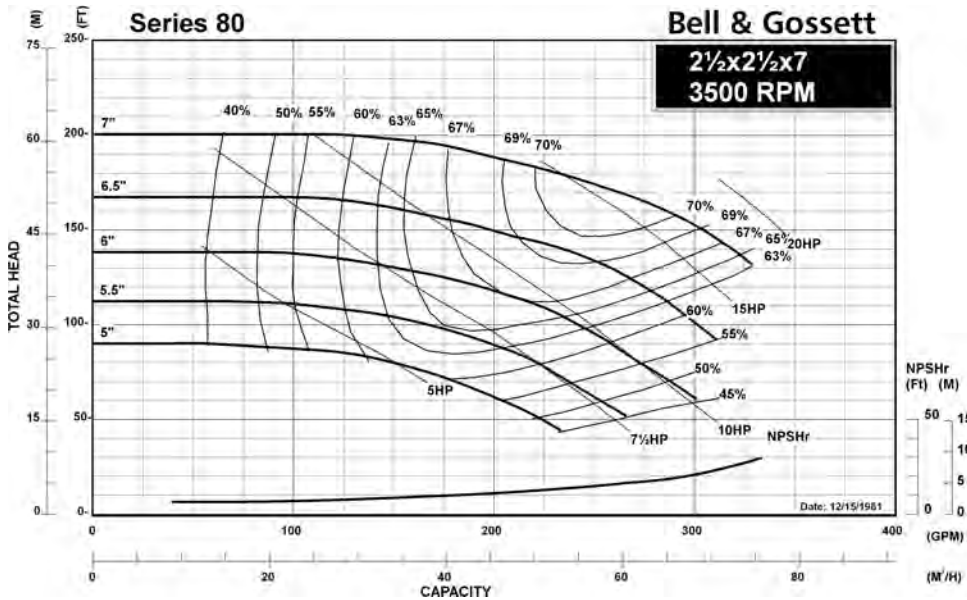
- BRONZE FITTED     ALL IRON

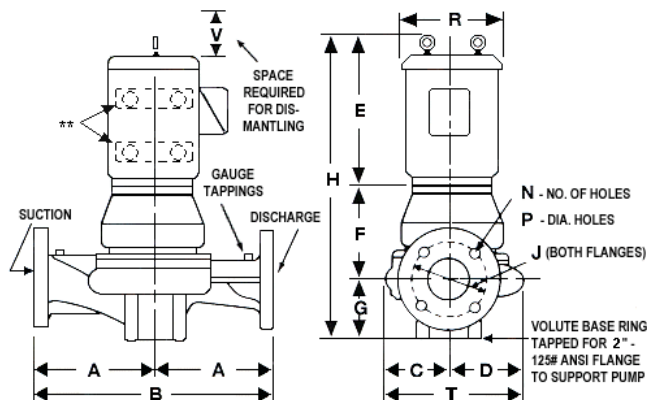
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling  
 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)  
 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)  
 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)  
 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)  
 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source  
 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	2-1/2"	1 (25)	7-3/8 (187)
Suction	2-1/2"	1 (25)	7-3/8 (187)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max) <sup>+</sup>	T	V (Min)
									J	N	P	J	N	P				
143	9 (229)	18 (457)	5 (127)	5-5/8 (143)	11-5/8 (295)	4-7/8 (124)	5-1/4 (133)	21-3/4 (552)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	1-1/2 (38)	10-5/8 (270)	4-1/2 (114)
145	9 (229)	18 (457)	5 (127)	5-5/8 (143)	12-5/8 (321)	4-7/8 (124)	5-1/4 (133)	22-3/4 (578)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	1-1/2 (38)	10-5/8 (270)	4-1/2 (114)
182	9 (229)	18 (457)	5 (127)	5-5/8 (143)	15-5/16 (389)	4-7/8 (124)	5-1/4 (133)	25-1/2 (648)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	1 (25)	10-5/8 (270)	4-1/2 (114)
184	9 (229)	18 (457)	5 (127)	5-5/8 (143)	15-5/16 (389)	4-7/8 (124)	5-1/4 (133)	25-1/2 (648)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	1 (25)	10-5/8 (270)	4-1/2 (114)
213	9 (229)	18 (457)	5 (127)	5-5/8 (143)	19-1/4 (489)	4-7/8 (124)	5-1/4 (133)	29-3/8 (746)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	-	10-5/8 (270)	4-1/2 (114)
215	9 (229)	18 (457)	5 (127)	5-5/8 (143)	19-1/4 (489)	4-7/8 (124)	5-1/4 (133)	29-3/8 (746)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	-	10-5/8 (270)	4-1/2 (114)
254	9 (229)	18 (457)	5 (127)	5-5/8 (143)	24-1/8 (613)	8-3/4 (222)	5-1/4 (133)	38-1/8 (968)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	-	10-5/8 (270)	4-1/2 (114)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max) <sup>+</sup>	T	V (Min)
									J	N	P	J	N	P				
143	9 (229)	18 (457)	5 (127)	5-5/8 (143)	11-5/8 (295)	8 (203)	5-1/4 (133)	24-7/8 (632)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	1-1/2 (38)	10-5/8 (270)	4-1/2 (114)
145	9 (229)	18 (457)	5 (127)	5-5/8 (143)	12-5/8 (321)	8 (203)	5-1/4 (133)	25-7/8 (657)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	1-1/2 (38)	10-5/8 (270)	4-1/2 (114)
182	9 (229)	18 (457)	5 (127)	5-5/8 (143)	15-5/16 (389)	8 (203)	5-1/4 (133)	28-5/8 (727)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	1 (25)	10-5/8 (270)	4-1/2 (114)
184	9 (229)	18 (457)	5 (127)	5-5/8 (143)	15-5/16 (389)	8 (203)	5-1/4 (133)	28-5/8 (727)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	1 (25)	10-5/8 (270)	4-1/2 (114)
213	9 (229)	18 (457)	5 (127)	5-5/8 (143)	19-1/4 (489)	8-3/4 (222)	5-1/4 (133)	33-1/4 (845)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	-	10-5/8 (270)	4-1/2 (114)
215	9 (229)	18 (457)	5 (127)	5-5/8 (143)	19-1/4 (489)	8-3/4 (222)	5-1/4 (133)	33-1/4 (845)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	-	10-5/8 (270)	4-1/2 (114)
254	9 (229)	18 (457)	5 (127)	5-5/8 (143)	24-1/8 (613)	8-3/4 (222)	5-1/4 (133)	38-1/8 (968)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	-	10-5/8 (270)	4-1/2 (114)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

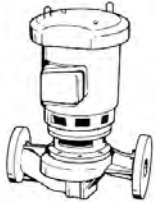


Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.

© 2013 Xylem Inc.



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



## 2½x2½x7 Series 80® In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

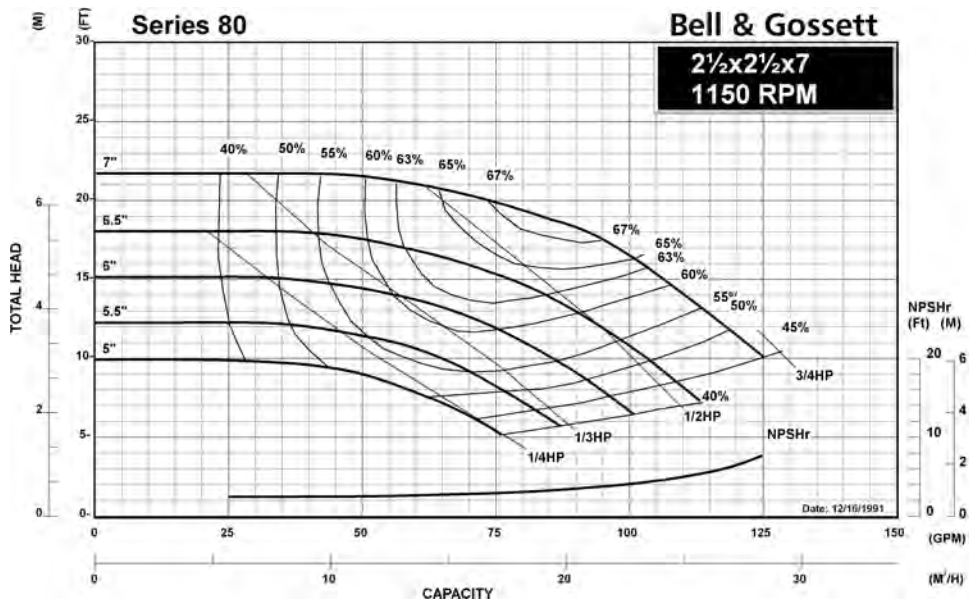
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





# 2 1/2 x 2 1/2 x 7 Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

**DIMENSIONS – Inches (mm)**

**STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143	9 (229)	18 (457)	11-5/8 (295)	5-1/4 (133)	21-3/4 (552)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	28-25/64 (721)	2-21/64 (59)
145	9 (229)	18 (457)	12-5/8 (321)	5-1/4 (133)	22-3/4 (578)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	29-25/64 (746)	2-21/64 (59)
182	9 (229)	18 (457)	15-5/16 (389)	5-1/4 (133)	25-1/2 (648)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	28-21/32 (728)	3-1/32 (77)
184	9 (229)	18 (457)	15-5/16 (389)	5-1/4 (133)	25-1/2 (648)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	28-21/32 (728)	3-1/32 (77)
													B1	15-5/64 (383)	13-11/16 (348)	9-1/2 (241)	29-23/32 (755)	4-11/16 (119)
213	9 (229)	18 (457)	19-1/4 (489)	5-1/4 (133)	29-3/8 (746)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	31-61/64 (812)	3-9/16 (90)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	33-35/64 (852)	5-7/32 (132)
215	9 (229)	18 (457)	19-1/4 (489)	5-1/4 (133)	29-3/8 (746)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	30-31/64 (774)	3-9/16 (90)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	32-1/64 (813)	5-7/32 (132)
254	9 (229)	18 (457)	24-1/8 (613)	5-1/4 (133)	38-1/8 (968)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	41-1/8 (1044)	5-59/64 (150)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	45-37/64 (1158)	5-59/64 (150)

**STUFFING BOX 80-PF, 80-S, 80-D**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143	9 (229)	18 (457)	11-5/8 (295)	5-1/4 (133)	24-7/8 (632)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	31-33/64 (800)	2-21/64 (59)
145	9 (229)	18 (457)	12-5/8 (321)	5-1/4 (133)	25-7/8 (657)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	32-33/64 (826)	2-21/64 (59)
182	9 (229)	18 (457)	15-5/16 (389)	5-1/4 (133)	28-5/8 (727)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	31-25/32 (807)	3-1/32 (77)
184	9 (229)	18 (457)	15-5/16 (389)	5-1/4 (133)	28-5/8 (727)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	31-25/32 (807)	3-1/32 (77)
													B1	15-5/64 (383)	13-11/16 (348)	9-1/2 (241)	32-27/32 (834)	4-11/16 (119)
213	9 (229)	18 (457)	19-1/4 (489)	5-1/4 (133)	33-1/4 (845)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	35-53/64 (910)	3-9/16 (90)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	37-27/64 (951)	5-7/32 (132)
215	9 (229)	18 (457)	19-1/4 (489)	5-1/4 (133)	33-1/4 (845)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	34-23/64 (873)	3-9/16 (90)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	35-57/64 (912)	5-7/32 (132)
254	9 (229)	18 (457)	24-1/8 (613)	5-1/4 (133)	38-1/8 (968)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	41-1/8 (1044)	5-59/64 (150)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	45-37/64 (1158)	5-59/64 (150)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

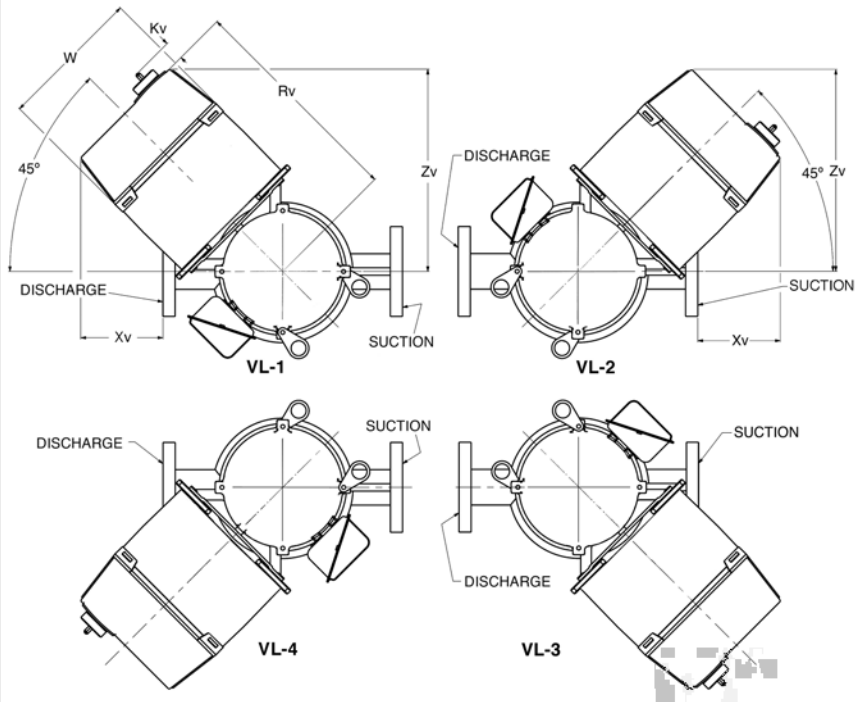
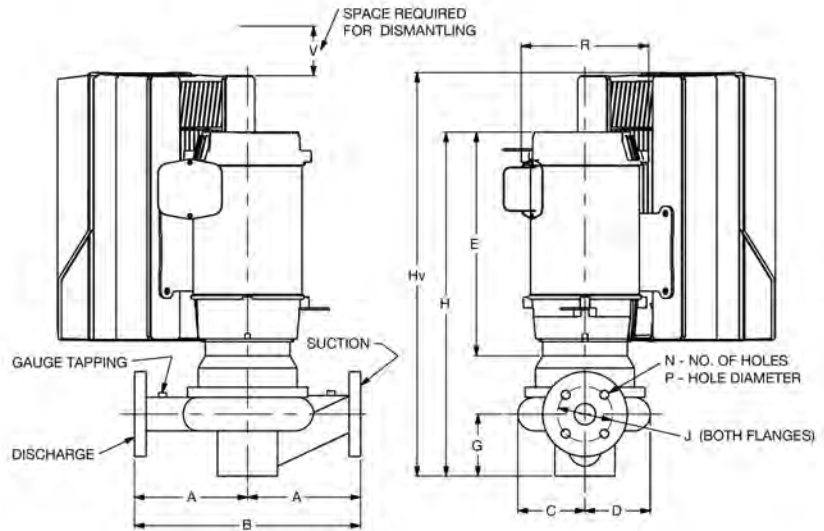




# 2 1/2 x 2 1/2 x 7 Series 80®

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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

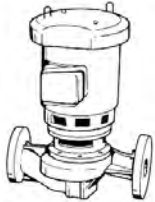


Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.

JOB: _____   UNIT TAG: _____ ENGINEER: _____ CONTRACTOR: _____	REPRESENTATIVE: _____   ORDER NO. _____ SUBMITTED BY: _____ APPROVED BY: _____	DATE: _____ DATE: _____ DATE: _____
---	---	---



## 2½x2½x9½B

### Series 80®

#### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

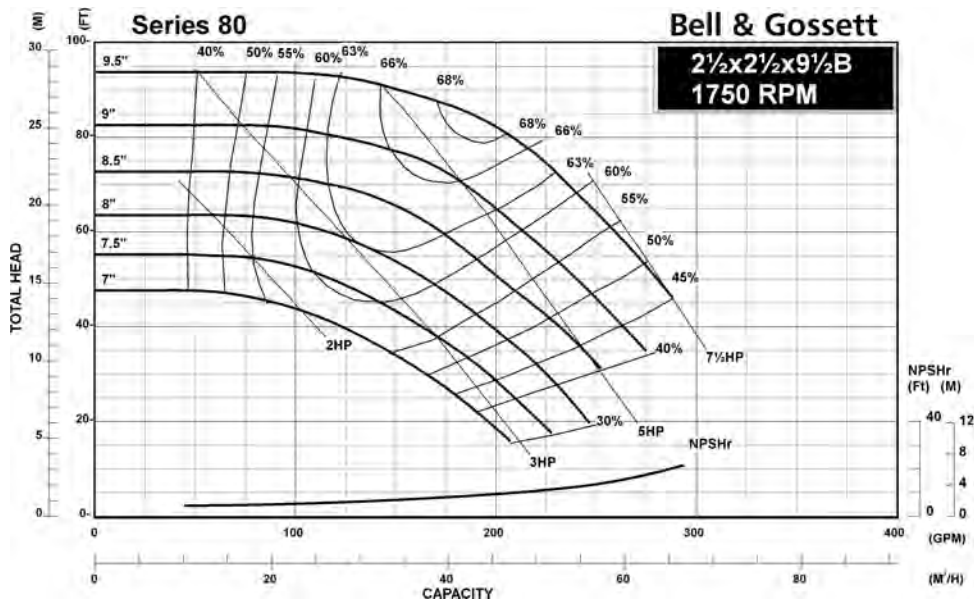
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

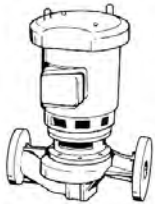
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



## 2½x2½x9½B

### Series 80®

#### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

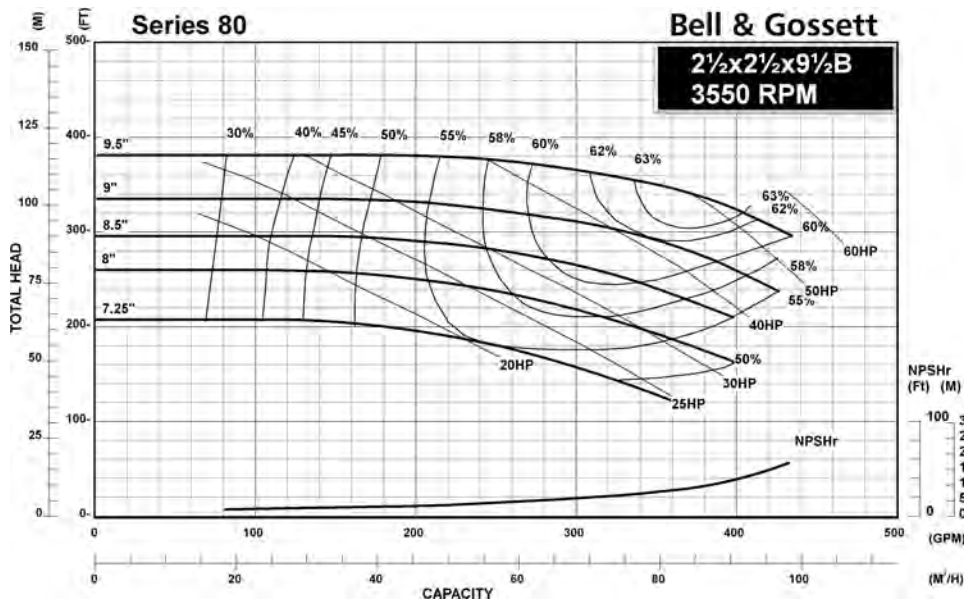
- BRONZE FITTED     ALL IRON

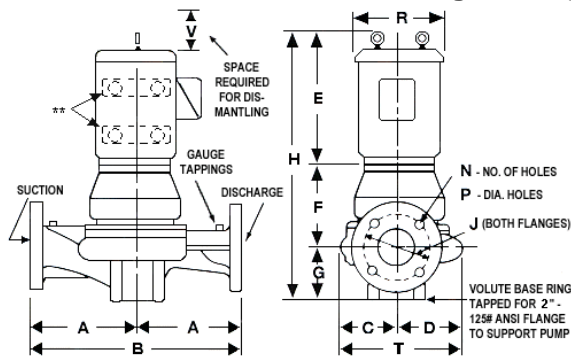
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	2-1/2"	1 (25)	7-3/8 (187)
Suction	2-1/2"	1 (25)	7-3/8 (187)

\*\* Motor may be supplied with feet

DIMENSIONS – Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
145	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	12-5/8 (321)	4-13/16 (122)	6 (152)	23-1/2 (597)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	1-1/2 (38)	13-1/2 (343)	4-3/4 (121)
182	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	15-5/16 (389)	4-13/16 (122)	6 (152)	26-1/8 (664)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	1 (25)	13-1/2 (343)	4-3/4 (121)
184	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	15-5/16 (389)	4-13/16 (122)	6 (152)	26-1/8 (664)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	1 (25)	13-1/2 (343)	4-3/4 (121)
213	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	19-1/4 (489)	4-13/16 (122)	6 (152)	30-1/8 (765)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	-	13-1/2 (343)	4-3/4 (121)
215	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	19-1/4 (489)	4-13/16 (122)	6 (152)	30-1/8 (765)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	-	13-1/2 (343)	4-3/4 (121)
254	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	24-1/8 (613)	8-11/16 (221)	6 (152)	38-7/8 (987)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	-	13-1/2 (343)	4-3/4 (121)
256	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	24-1/8 (613)	8-11/16 (221)	6 (152)	38-7/8 (987)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	-	13-1/2 (343)	4-3/4 (121)
284	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	23-5/8 (600)	8-11/16 (221)	6 (152)	38-3/8 (975)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	13-1/2 (343)	4-3/4 (121)
286	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	25-1/8 (638)	8-11/16 (221)	6 (152)	39-7/8 (1013)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	13-1/2 (343)	4-3/4 (121)
324	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	26 (660)	8-11/16 (221)	6 (152)	40-3/4 (1035)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	18-3/4 (476)	5-3/8 (137)	13-1/2 (343)	4-3/4 (121)
326	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	26 (660)	8-11/16 (221)	6 (152)	40-3/4 (1035)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	18-3/4 (476)	6-7/8 (175)	13-1/2 (343)	4-3/4 (121)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
145	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	12-5/8 (321)	7-15/16 (202)	6 (152)	26-5/8 (676)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	1-1/2 (38)	13-1/2 (343)	4-3/4 (121)
182	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	15-5/16 (389)	7-15/16 (202)	6 (152)	29-1/4 (743)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	1 (25)	13-1/2 (343)	4-3/4 (121)
184	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	15-5/16 (389)	7-15/16 (202)	6 (152)	29-1/4 (743)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	1 (25)	13-1/2 (343)	4-3/4 (121)
213	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	19-1/4 (489)	8-11/16 (221)	6 (152)	34 (864)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	-	13-1/2 (343)	4-3/4 (121)
215	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	19-1/4 (489)	8-11/16 (221)	6 (152)	34 (864)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	-	13-1/2 (343)	4-3/4 (121)
254	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	24-1/8 (613)	8-11/16 (221)	6 (152)	38-7/8 (987)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	-	13-1/2 (343)	4-3/4 (121)
256	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	24-1/8 (613)	8-11/16 (221)	6 (152)	38-7/8 (987)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	-	13-1/2 (343)	4-3/4 (121)
284	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	23-5/8 (600)	8-11/16 (221)	6 (152)	38-3/8 (975)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	13-1/2 (343)	4-3/4 (121)
286	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	25-1/8 (638)	8-11/16 (221)	6 (152)	39-7/8 (1013)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	13-1/2 (343)	4-3/4 (121)
324	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	26 (660)	8-11/16 (221)	6 (152)	40-3/4 (1035)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	18-3/4 (476)	5-3/8 (137)	13-1/2 (343)	4-3/4 (121)
326	10-3/4 (273)	21-1/2 (546)	6-3/8 (162)	7-1/8 (181)	26 (660)	8-11/16 (221)	6 (152)	40-3/4 (1035)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	18-3/4 (476)	6-7/8 (175)	13-1/2 (343)	4-3/4 (121)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H. For TEFC Motors add S dimension to dimensions E & H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

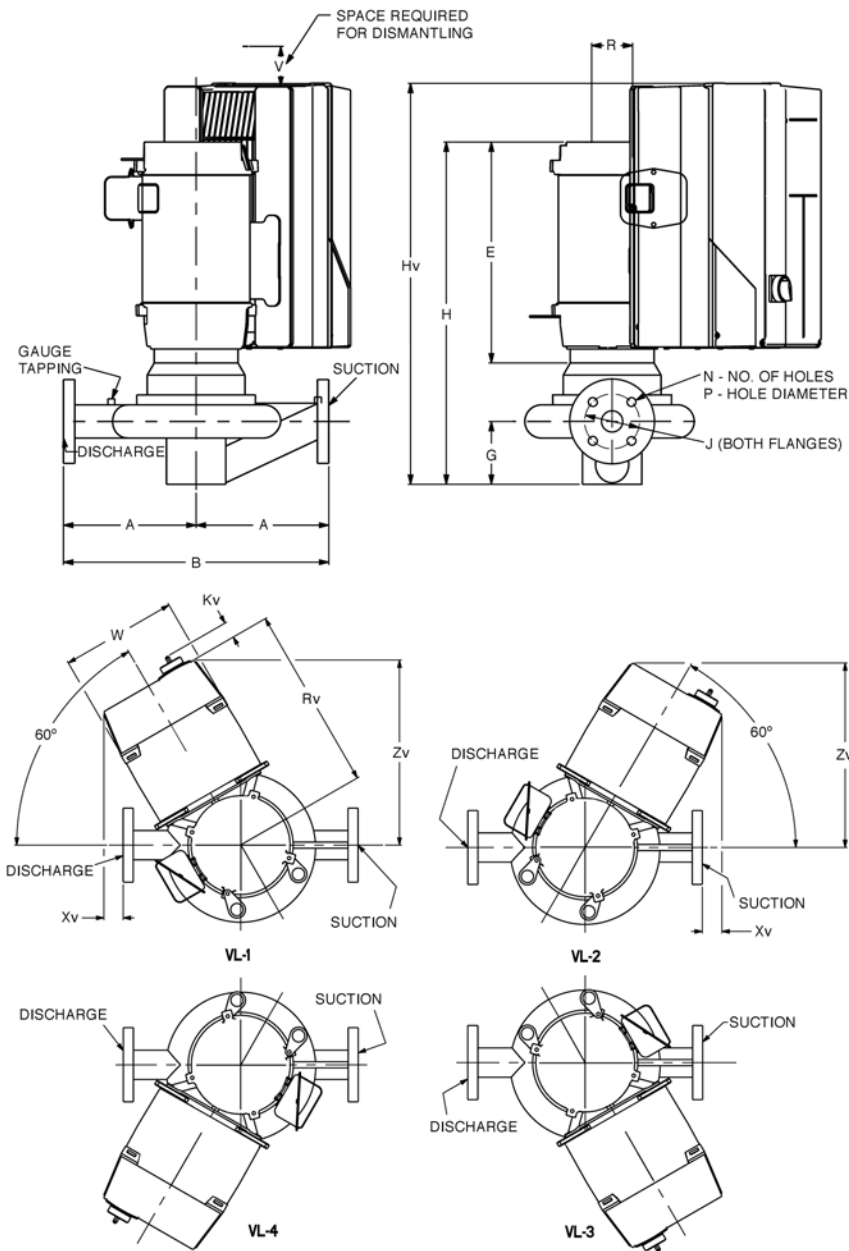




# 2 1/2 x 2 1/2 x 9 1/2 B Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.





# 2 1/2 x 2 1/2 x 9 1/2 B Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

**DIMENSIONS – Inches (mm)**

**STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv	
						J	N	P	J	N	P								
145	10-3/4 (273)	21-1/2 (546)	12-5/8 (321)	6 (152)	23-1/2 (597)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	12-5/16 (313)	9-1/2 (241)	30-9/64 (765)	1-3/16 (30)	
182	10-3/4 (273)	21-1/2 (546)	15-5/16 (389)	6 (152)	26-1/8 (664)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	29-9/32 (744)	11/16 (18)	
184	10-3/4 (273)	21-1/2 (546)	15-5/16 (389)	6 (152)	26-1/8 (664)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	29-9/32 (744)	11/16 (18)	
213	10-3/4 (273)	21-1/2 (546)	19-1/4 (489)	6 (152)	30-1/8 (765)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	32-45/64 (831)	5/16 (8)	
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	34-19/64 (871)	7/8 (22)	
215	10-3/4 (273)	21-1/2 (546)	19-1/4 (489)	6 (152)	30-1/8 (765)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	31-15/64 (793)	5/16 (8)	
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	32-49/64 (832)	7/8 (22)	
254	10-3/4 (273)	21-1/2 (546)	24-1/8 (613)	6 (152)	38-7/8 (987)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	-	-	-	-	-	-	-
256	10-3/4 (273)	21-1/2 (546)	24-1/8 (613)	6 (152)	38-7/8 (987)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	41-1/4 (1048)	1-3/8 (35)	
													C1	18-53/64 (478)	18-31/32 (482)	12-3/32 (307)	46-19/32 (1184)	3-9/32 (84)	
284	10-3/4 (273)	21-1/2 (546)	23-5/8 (600)	6 (152)	38-3/8 (975)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	40-5/8 (1032)	1-3/4 (44)	
													B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	45-5/64 (1145)	1-3/4 (44)	
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	47-31/64 (1206)	3-21/32 (93)	
286	10-3/4 (273)	21-1/2 (546)	25-1/8 (638)	6 (152)	39-7/8 (1013)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	46-37/64 (1183)	1-3/4 (44)	
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	48-63/64 (1244)	3-21/32 (93)	
324	10-3/4 (273)	21-1/2 (546)	26 (660)	6 (152)	40-3/4 (1035)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	18-7/32 (463)	9-1/2 (241)	45-59/64 (1167)	2-1/4 (57)	
													C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	46-17/64 (1175)	4-5/32 (106)	
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-53/64 (1291)	5-11/16 (145)	
326	10-3/4 (273)	21-1/2 (546)	26 (660)	6 (152)	40-3/4 (1035)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	18-3/4 (476)	C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	46-17/64 (1175)	4-5/32 (106)	
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-53/64 (1291)	5-11/16 (145)	

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.





# 2½X2½X9½B Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

## STUFFING BOX 80-PF, 80-S, 80-D

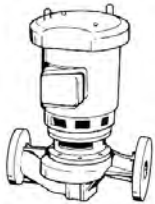
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv	
						J	N	P	J	N	P								
145	10-3/4 (273)	21-1/2 (546)	12-5/8 (321)	6 (152)	26-5/8 (676)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	12-5/16 (313)	9-1/2 (241)	33-17/64 (845)	1-3/16 (30)	
182	10-3/4 (273)	21-1/2 (546)	15-5/16 (389)	6 (152)	29-1/4 (743)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	32-13/32 (823)	11/16 (18)	
184	10-3/4 (273)	21-1/2 (546)	15-5/16 (389)	6 (152)	29-1/4 (743)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	32-13/32 (823)	11/16 (18)	
213	10-3/4 (273)	21-1/2 (546)	19-1/4 (489)	6 (152)	34 (864)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	36-37/64 (929)	5/16 (8)	
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	38-11/64 (970)	7/8 (22)	
215	10-3/4 (273)	21-1/2 (546)	19-1/4 (489)	6 (152)	34 (864)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	35-7/64 (892)	5/16 (8)	
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	36-41/64 (931)	7/8 (22)	
254	10-3/4 (273)	21-1/2 (546)	24-1/8 (613)	6 (152)	38-7/8 (987)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	-	-	-	-	-	-	-
256	10-3/4 (273)	21-1/2 (546)	24-1/8 (613)	6 (152)	38-7/8 (987)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	41-1/4 (1048)	1-3/8 (35)	
													C1	18-53/64 (478)	18-31/32 (482)	12-3/32 (307)	46-19/32 (1184)	3-9/32 (84)	
284	10-3/4 (273)	21-1/2 (546)	23-5/8 (600)	6 (152)	38-3/8 (975)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	40-5/8 (1032)	1-3/4 (44)	
													B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	45-5/64 (1145)	1-3/4 (44)	
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	47-31/64 (1206)	3-21/32 (93)	
286	10-3/4 (273)	21-1/2 (546)	25-1/8 (638)	6 (152)	39-7/8 (1013)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	46-37/64 (1183)	1-3/4 (44)	
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	48-63/64 (1244)	3-21/32 (93)	
324	10-3/4 (273)	21-1/2 (546)	26 (660)	6 (152)	40-3/4 (1035)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	18-7/32 (463)	9-1/2 (241)	45-59/64 (1167)	2-1/4 (57)	
													C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	46-17/64 (1175)	4-5/32 (106)	
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-53/64 (1291)	5-11/16 (145)	
326	10-3/4 (273)	21-1/2 (546)	26 (660)	6 (152)	40-3/4 (1035)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	18-3/4 (476)	C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	46-17/64 (1175)	4-5/32 (106)	
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-53/64 (1291)	5-11/16 (145)	

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.

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



## 2x2x7 Series 80<sup>®</sup> In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 APPROX. WEIGHT \_\_\_\_\_  
 SPECIALS \_\_\_\_\_  
 \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

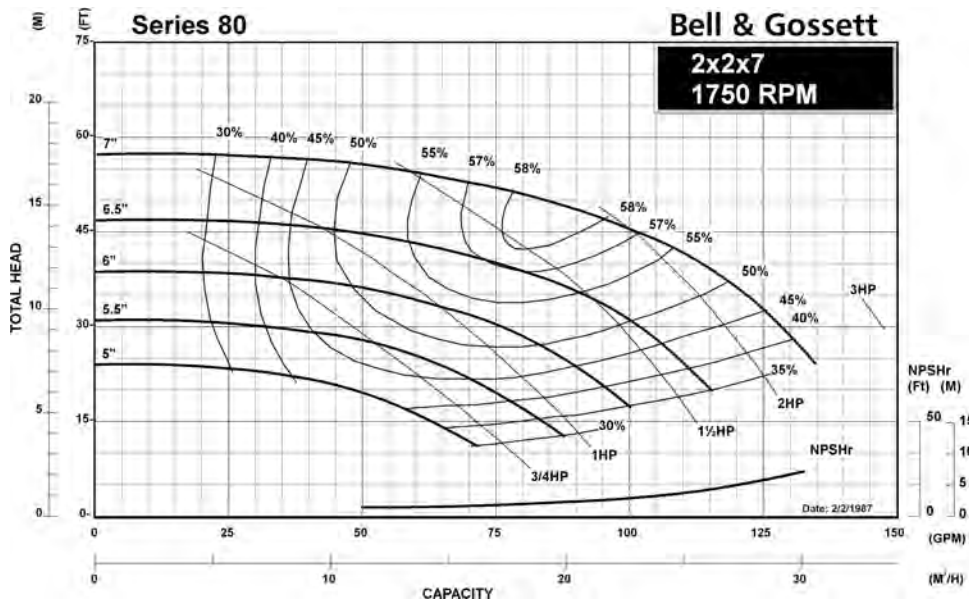
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

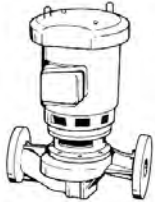
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling  
 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)  
 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)  
 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)  
 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)  
 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source  
 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



## 2x2x7 Series 80<sup>®</sup> In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

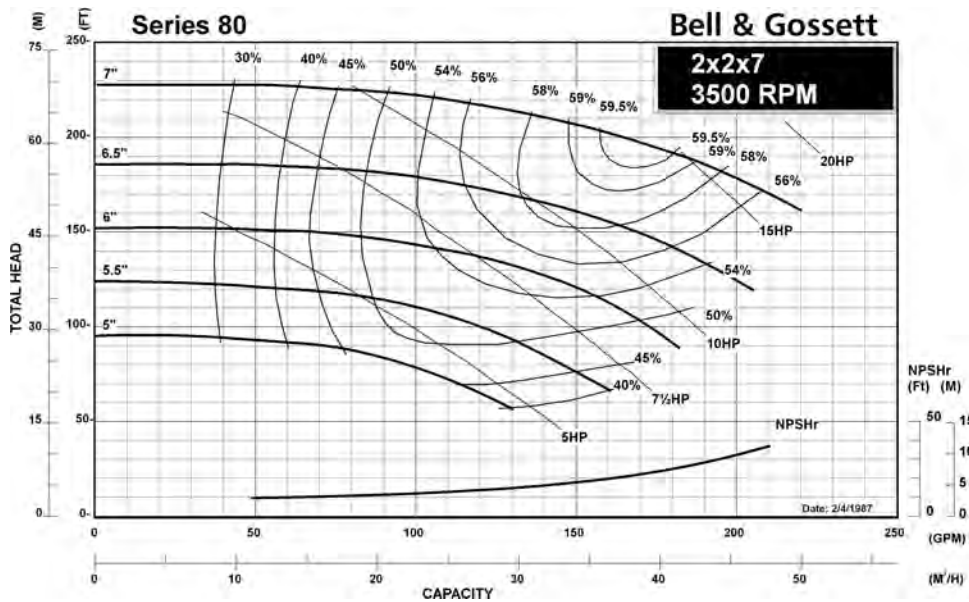
- BRONZE FITTED     ALL IRON

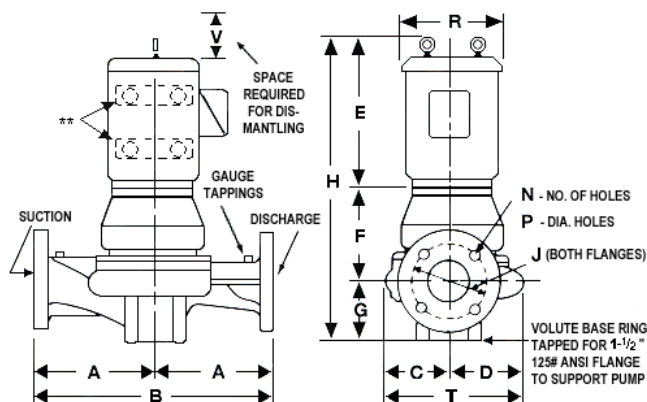
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	2"	7/8 (21)	6-1/4 (159)
Suction	2"	7/8 (21)	6-1/4 (159)

Flanges are 125# ANSI - Standard  
250# ANSI - Available

\*\* Motor may be supplied with feet

**DIMENSIONS - Inches (mm) STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
143	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	11-5/8 (295)	4-5/8 (117)	4-7/8 (124)	21-1/8 (537)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	1-1/2 (38)	10 (254)	4 (102)
145	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	12-5/8 (321)	4-5/8 (117)	4-7/8 (124)	22-1/8 (562)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	1-1/2 (38)	10 (254)	4 (102)
182	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	15-5/16 (389)	4-5/8 (117)	4-7/8 (124)	24-13/16 (630)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	1 (25)	10 (254)	4 (102)
184	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	15-5/16 (389)	4-5/8 (117)	4-7/8 (124)	24-13/16 (630)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	1 (25)	10 (254)	4 (102)
213	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	19-1/4 (489)	4-5/8 (117)	4-7/8 (124)	28-3/4 (730)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	-	10 (254)	4 (102)
215	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	19-1/4 (489)	4-5/8 (117)	4-7/8 (124)	28-3/4 (730)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	-	10 (254)	4 (102)
254	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	24-1/8 (613)	8-1/2 (216)	4-7/8 (124)	37-1/2 (952)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	-	10 (254)	4 (102)

**STUFFING BOX 80-PF, 80-S, 80-D**

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
143	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	11-5/8 (295)	7-3/4 (197)	4-7/8 (124)	24-1/4 (616)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	1-1/2 (38)	10 (254)	4 (102)
145	8-1/2 (216)	17 (432)	4-3/4 (121)	5.25	12-5/8 (321)	7-3/4 (197)	4-7/8 (124)	25-1/4 (641)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	1-1/2 (38)	10 (254)	4 (102)
182	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	15-5/16 (389)	7-3/4 (197)	4-7/8 (124)	27-15/16 (710)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	1 (25)	10 (254)	4 (102)
184	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	15-5/16 (389)	7-3/4 (197)	4-7/8 (124)	27-15/16 (710)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	1 (25)	10 (254)	4 (102)
213	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	19-1/4 (489)	8-1/2 (216)	4-7/8 (124)	32-5/8 (829)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	-	10 (254)	4 (102)
215	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	19-1/4 (489)	8-1/2 (216)	4-7/8 (124)	32-5/8 (829)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	-	10 (254)	4 (102)
254	8-1/2 (216)	17 (432)	4-3/4 (121)	5-1/4 (133)	24-1/8 (613)	8-1/2 (216)	4-7/8 (124)	37-1/2 (952)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	-	10 (254)	4 (102)

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

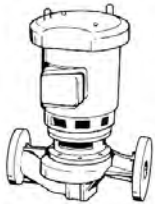
NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



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



## 2x2x7 Series 80<sup>®</sup> In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

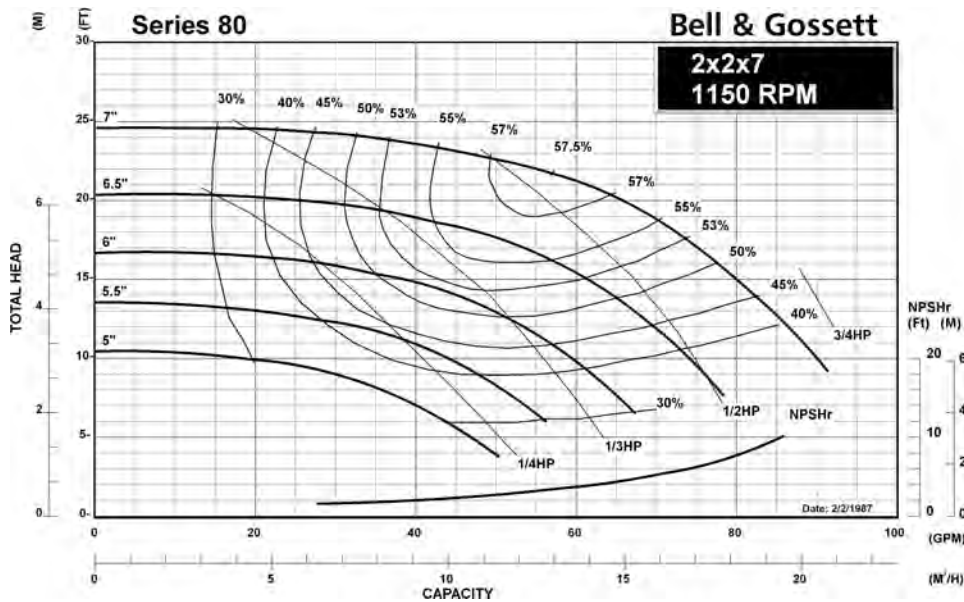
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)

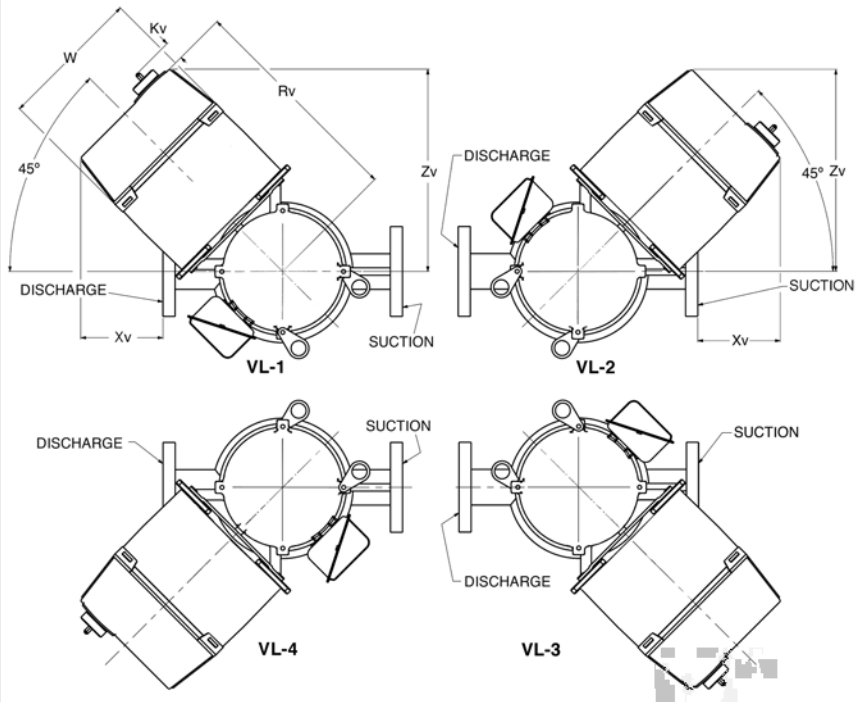
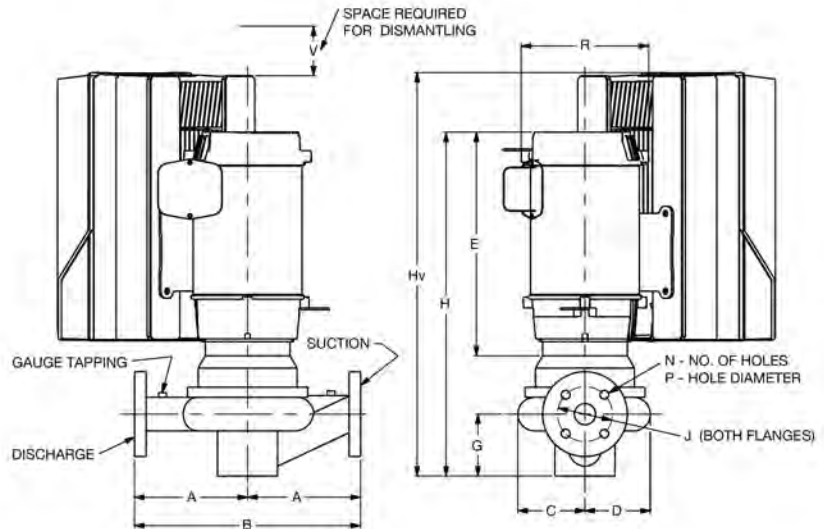




# 2x2x7 Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com





# 2x2x7 Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

**DIMENSIONS – Inches (mm)**

**STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143	8-1/2 (216)	17 (432)	11-5/8 (295)	4-7/8 (124)	21-1/8 (537)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	27-49/64 (705)	2-53/64 (72)
145	8-1/2 (216)	17 (432)	12-5/8 (321)	4-7/8 (124)	22-1/8 (562)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	28-49/64 (731)	2-53/64 (72)
182	8-1/2 (216)	17 (432)	15-5/16 (389)	4-7/8 (124)	24-13/16 (630)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	27-31/32 (710)	3-17/32 (90)
184	8-1/2 (216)	17 (432)	15-5/16 (389)	4-7/8 (124)	24-13/16 (630)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	27-31/32 (710)	3-17/32 (90)
													B1	15-5/64 (383)	13-11/16 (348)	9-1/2 (241)	29-1/32 (737)	5-3/16 (132)
213	8-1/2 (216)	17 (432)	19-1/4 (489)	4-7/8 (124)	28-3/4 (730)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	31-21/64 (796)	4-1/16 (103)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	32-59/64 (836)	5-23/32 (145)
215	8-1/2 (216)	17 (432)	19-1/4 (489)	4-7/8 (124)	28-3/4 (730)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	29-55/64 (758)	4-1/16 (103)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	31-25/64 (797)	5-23/32 (145)
254	8-1/2 (216)	17 (432)	24-1/8 (613)	4-7/8 (124)	37-1/2 (952)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	40-1/2 (1029)	6-27/64 (163)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	44-61/64 (1142)	6-27/64 (163)

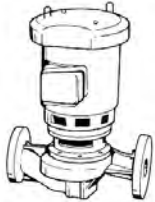
**STUFFING BOX 80-PF, 80-S, 80-D**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143	8-1/2 (216)	17 (432)	11-5/8 (295)	4-7/8 (124)	24-1/4 (616)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	30-57/64 (785)	2-53/64 (72)
145	8-1/2 (216)	17 (432)	12-5/8 (321)	4-7/8 (124)	25-1/4 (641)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	31-57/64 (810)	2-53/64 (72)
182	8-1/2 (216)	17 (432)	15-5/16 (389)	4-7/8 (124)	27-15/16 (710)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	31-3/32 (790)	3-17/32 (90)
184	8-1/2 (216)	17 (432)	15-5/16 (389)	4-7/8 (124)	27-15/16 (710)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	31-3/32 (790)	3-17/32 (90)
													B1	15-5/64 (383)	13-11/16 (348)	9-1/2 (241)	32-5/32 (817)	5-3/16 (132)
213	8-1/2 (216)	17 (432)	19-1/4 (489)	4-7/8 (124)	32-5/8 (829)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	35-13/64 (894)	4-1/16 (103)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	36-51/64 (935)	5-23/32 (145)
215	8-1/2 (216)	17 (432)	19-1/4 (489)	4-7/8 (124)	32-5/8 (829)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	33-47/64 (857)	4-1/16 (103)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	35-17/64 (896)	5-23/32 (145)
254	8-1/2 (216)	17 (432)	24-1/8 (613)	4-7/8 (124)	37-1/2 (952)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	40-1/2 (1029)	6-27/64 (163)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	44-61/64 (1142)	6-27/64 (163)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



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



## 2x2x9½B

### Series 80®

#### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

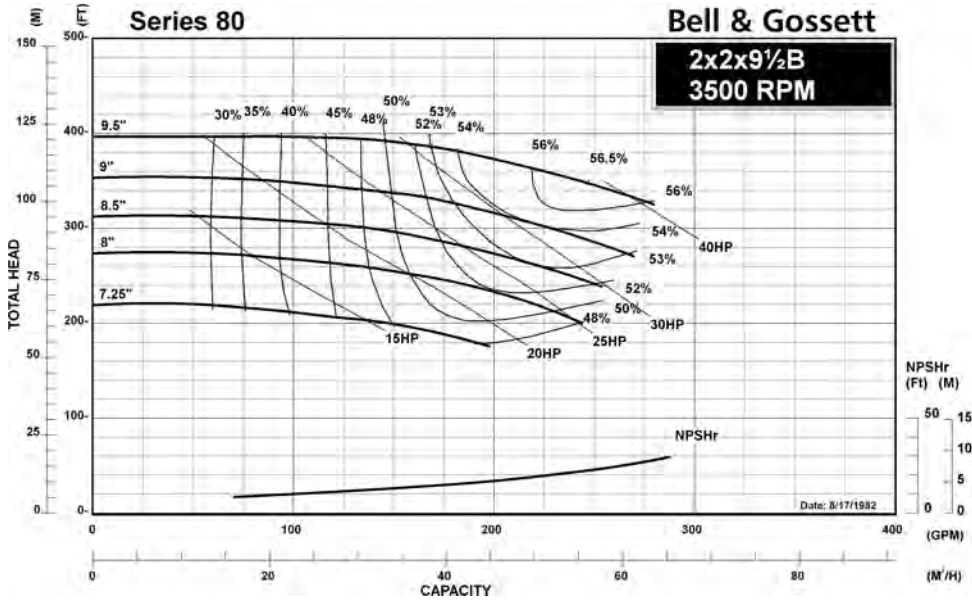
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

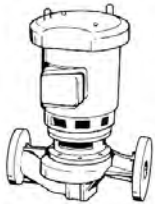
**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





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



## 2x2x9<sup>1</sup>/<sub>2</sub>B

### Series 80<sup>®</sup>

#### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

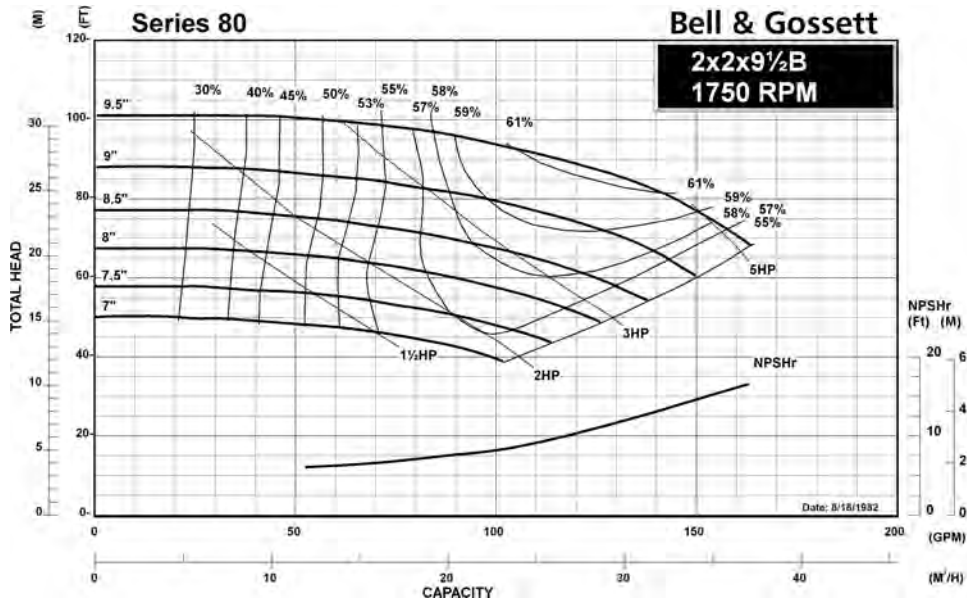
- BRONZE FITTED     ALL IRON

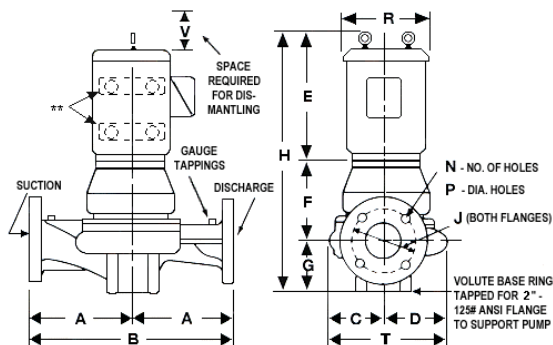
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	2"	7/8 (22)	6-1/4 (159)
Suction	2"	7/8 (22)	6-1/4 (159)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS – Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
145	10 (254)	20 (508)	6 (152)	6-1/2 (165)	12-5/8 (321)	4-3/4 (121)	5-3/8 (137)	22-3/4 (578)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	1-1/2 (38)	12-1/2 (318)	4-1/2 (114)
182	10 (254)	20 (508)	6 (152)	6-1/2 (165)	15-5/16 (389)	4-3/4 (121)	5-3/8 (137)	25-7/16 (646)	4-3/4 (-83)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	1 (25)	12-1/2 (318)	4-1/2 (114)
184	10 (254)	20 (508)	6 (152)	6-1/2 (165)	15-5/16 (389)	4-3/4 (121)	5-3/8 (137)	25-7/16 (646)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	1 (25)	12-1/2 (318)	4-1/2 (114)
213	10 (254)	20 (508)	6 (152)	6-1/2 (165)	19-1/4 (489)	4-3/4 (121)	5-3/8 (137)	29-3/8 (746)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	-	12-1/2 (318)	4-1/2 (114)
215	10 (254)	20 (508)	6 (152)	6-1/2 (165)	19-1/4 (489)	4-3/4 (121)	5-3/8 (137)	29-3/8 (746)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	-	12-1/2 (318)	4-1/2 (114)
254	10 (254)	20 (508)	6 (152)	6-1/2 (165)	24-1/8 (613)	8-5/8 (219)	5-3/8 (137)	38-1/8 (968)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	-	12-1/2 (318)	4-1/2 (114)
256	10 (254)	20 (508)	6 (152)	6-1/2 (165)	24-1/8 (613)	8-5/8 (219)	5-3/8 (137)	38-1/8 (968)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	-	12-1/2 (318)	4-1/2 (114)
284	10 (254)	20 (508)	6 (152)	6-1/2 (165)	23-5/8 (600)	8-5/8 (219)	5-3/8 (137)	37-5/8 (956)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	16-1/8 (410)	4-5/8 (117)	12-1/2 (318)	4-1/2 (114)
286	10 (254)	20 (508)	6 (152)	6-1/2 (165)	25-1/8 (638)	8-5/8 (219)	5-3/8 (137)	39-1/8 (994)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	16-1/8 (410)	4-5/8 (117)	12-1/2 (318)	4-1/2 (114)
324	10 (254)	20 (508)	6 (152)	6-1/2 (165)	26 (660)	8-5/8 (219)	5-3/8 (137)	40 (1016)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	18-3/4 (476)	5-3/8 (137)	12-1/2 (318)	4-1/2 (114)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
145	10 (254)	20 (508)	6 (152)	6-1/2 (165)	12-5/8 (321)	7-7/8 (200)	5-3/8 (137)	25-7/8 (657)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	1-1/2 (38)	12-1/2 (318)	4-1/2 (114)
182	10 (254)	20 (508)	6 (152)	6-1/2 (165)	15-5/16 (389)	7-7/8 (200)	5-3/8 (137)	28-9/16 (725)	4-3/4 (-83)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	1 (25)	12-1/2 (318)	4-1/2 (114)
184	10 (254)	20 (508)	6 (152)	6-1/2 (165)	15-5/16 (389)	7-7/8 (200)	5-3/8 (137)	28-9/16 (725)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	1 (25)	12-1/2 (318)	4-1/2 (114)
213	10 (254)	20 (508)	6 (152)	6-1/2 (165)	19-1/4 (489)	8-5/8 (219)	5-3/8 (137)	33-1/4 (845)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	-	12-1/2 (318)	4-1/2 (114)
215	10 (254)	20 (508)	6 (152)	6-1/2 (165)	19-1/4 (489)	8-5/8 (219)	5-3/8 (137)	33-1/4 (845)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	-	12-1/2 (318)	4-1/2 (114)
254	10 (254)	20 (508)	6 (152)	6-1/2 (165)	24-1/8 (613)	8-5/8 (219)	5-3/8 (137)	38-1/8 (968)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	-	12-1/2 (318)	4-1/2 (114)
256	10 (254)	20 (508)	6 (152)	6-1/2 (165)	24-1/8 (613)	8-5/8 (219)	5-3/8 (137)	38-1/8 (968)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	-	12-1/2 (318)	4-1/2 (114)
284	10 (254)	20 (508)	6 (152)	6-1/2 (165)	23-5/8 (600)	8-5/8 (219)	5-3/8 (137)	37-5/8 (956)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	16-1/8 (410)	4-5/8 (117)	12-1/2 (318)	4-1/2 (114)
286	10 (254)	20 (508)	6 (152)	6-1/2 (165)	25-1/8 (638)	8-5/8 (219)	5-3/8 (137)	39-1/8 (994)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	16-1/8 (410)	4-5/8 (117)	12-1/2 (318)	4-1/2 (114)
324	10 (254)	20 (508)	6 (152)	6-1/2 (165)	26 (660)	8-5/8 (219)	5-3/8 (137)	40 (1016)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	18-3/4 (476)	5-3/8 (137)	12-1/2 (318)	4-1/2 (114)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E & H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

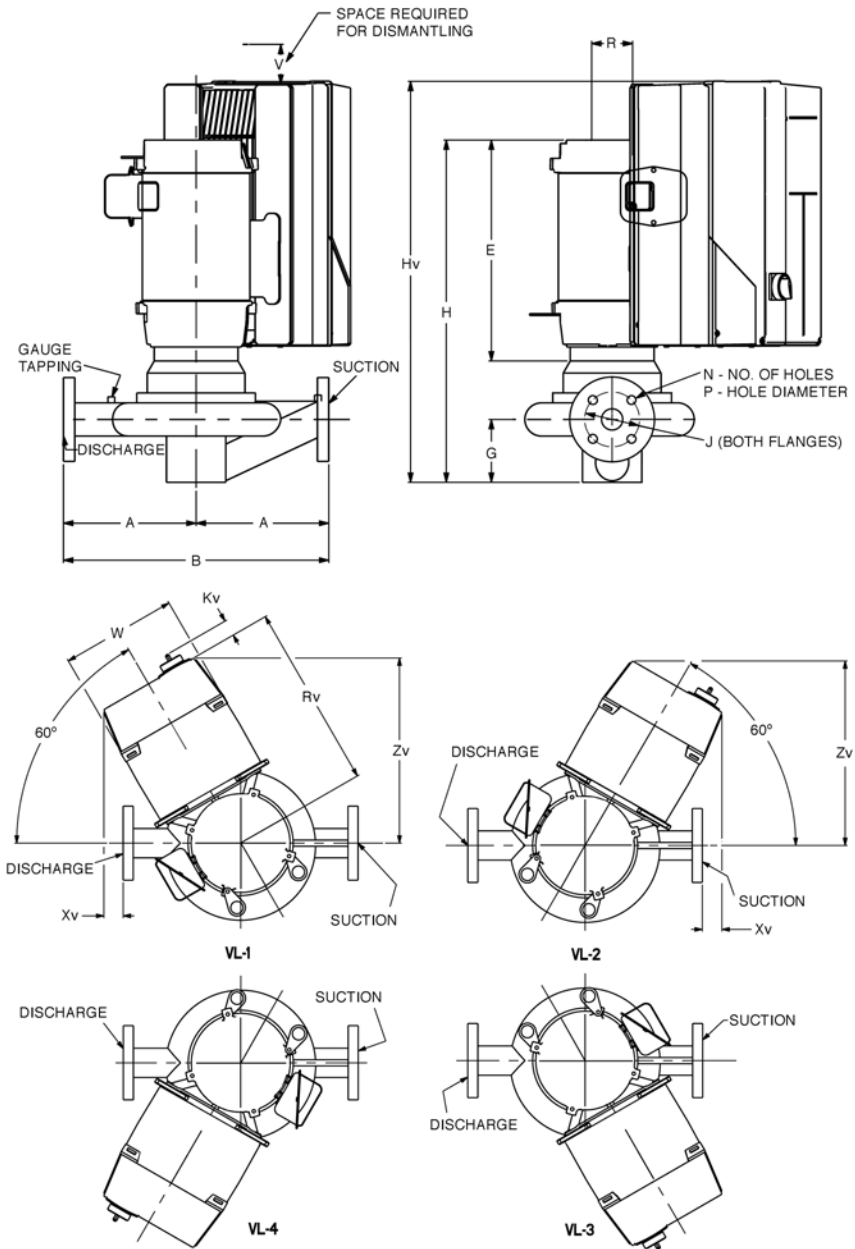




# 2x2x9<sup>1</sup>/<sub>2</sub>B Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 2x2x9<sup>1</sup>/<sub>2</sub>B Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
145	10 (254)	20 (508)	12-5/8 (321)	5-3/8 (137)	22-3/4 (578)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	A5	11-25/32 (299)	12-5/16 (313)	9-1/2 (241)	29-25/64 (746)	7/16 (11)
182	10 (254)	20 (508)	15-5/16 (389)	5-3/8 (137)	25-7/16 (646)	4-3/4 (-83)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	28-19/32 (726)	1/16 (2)
184	10 (254)	20 (508)	15-5/16 (389)	5-3/8 (137)	25-7/16 (646)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	28-19/32 (726)	1/16 (2)
213	10 (254)	20 (508)	19-1/4 (489)	5-3/8 (137)	29-3/8 (746)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	31-61/64 (812)	7/16 (11)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	33-35/64 (852)	1-5/8 (41)
215	10 (254)	20 (508)	19-1/4 (489)	5-3/8 (137)	29-3/8 (746)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	30-31/64 (774)	7/16 (11)
254	10 (254)	20 (508)	24-1/8 (613)	5-3/8 (137)	38-1/8 (968)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	41-1/8 (1044)	2-1/8 (54)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	45-37/64 (1158)	2-1/8 (54)
256	10 (254)	20 (508)	24-1/8 (613)	5-3/8 (137)	38-1/8 (968)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	40-1/2 (1029)	2-1/8 (54)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	44-61/64 (1142)	2-1/8 (54)
													C1	18-53/64 (478)	18-31/32 (482)	12-3/32 (307)	45-27/32 (1165)	4-1/32 (103)
284	10 (254)	20 (508)	23-5/8 (600)	5-3/8 (137)	37-5/8 (956)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	39-7/8 (1013)	2-1/2 (63)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	46-47/64 (1187)	4-13/32 (112)
286	10 (254)	20 (508)	25-1/8 (638)	5-3/8 (137)	39-1/8 (994)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	45-53/64 (1164)	2-1/2 (63)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	48-15/64 (1225)	4-13/32 (112)
324	10 (254)	20 (508)	26 (660)	5-3/8 (137)	40 (1016)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	18-3/4 (476)	B2	18-37/64 (472)	18-7/32 (463)	9-1/2 (241)	45-11/64 (1147)	3 (76)
													C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	45-33/64 (1156)	4-29/32 (125)
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-5/64 (1272)	6-7/16 (164)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 2x2x9<sup>1</sup>/<sub>2</sub>b Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

## STUFFING BOX 80-PF, 80-S, 80-D

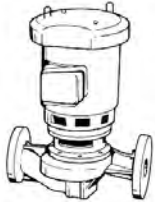
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
145	10 (254)	20 (508)	12-5/8 (321)	5-3/8 (137)	25-7/8 (657)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	9-3/4 (248)	A5	11-25/32 (299)	12-5/16 (313)	9-1/2 (241)	32-33/64 (826)	7/16 (11)
182	10 (254)	20 (508)	15-5/16 (389)	5-3/8 (137)	28-9/16 (725)	4-3/4 (-83)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	31-23/32 (805)	1/16 (2)
184	10 (254)	20 (508)	15-5/16 (389)	5-3/8 (137)	28-9/16 (725)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	31-23/32 (805)	1/16 (2)
213	10 (254)	20 (508)	19-1/4 (489)	5-3/8 (137)	33-1/4 (845)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	35-53/64 (910)	7/16 (11)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	37-27/64 (951)	1-5/8 (41)
215	10 (254)	20 (508)	19-1/4 (489)	5-3/8 (137)	33-1/4 (845)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	34-23/64 (873)	7/16 (11)
254	10 (254)	20 (508)	24-1/8 (613)	5-3/8 (137)	38-1/8 (968)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	41-1/8 (1044)	2-1/8 (54)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	45-37/64 (1158)	2-1/8 (54)
256	10 (254)	20 (508)	24-1/8 (613)	5-3/8 (137)	38-1/8 (968)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	40-1/2 (1029)	2-1/8 (54)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	44-61/64 (1142)	2-1/8 (54)
													C1	18-53/64 (478)	18-31/32 (482)	12-3/32 (307)	45-27/32 (1165)	4-1/32 (103)
284	10 (254)	20 (508)	23-5/8 (600)	5-3/8 (137)	37-5/8 (956)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	39-7/8 (1013)	2-1/2 (63)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	46-47/64 (1187)	4-13/32 (112)
286	10 (254)	20 (508)	25-1/8 (638)	5-3/8 (137)	39-1/8 (994)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	45-53/64 (1164)	2-1/2 (63)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	48-15/64 (1225)	4-13/32 (112)
324	10 (254)	20 (508)	26 (660)	5-3/8 (137)	40 (1016)	4-3/4 (121)	4	3/4 (19)	5 (127)	8	3/4 (19)	18-3/4 (476)	B2	18-37/64 (472)	18-7/32 (463)	9-1/2 (241)	45-11/64 (1147)	3 (76)
													C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	45-33/64 (1156)	4-29/32 (125)
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-5/64 (1272)	6-7/16 (164)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.

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



# 3x3x7B

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

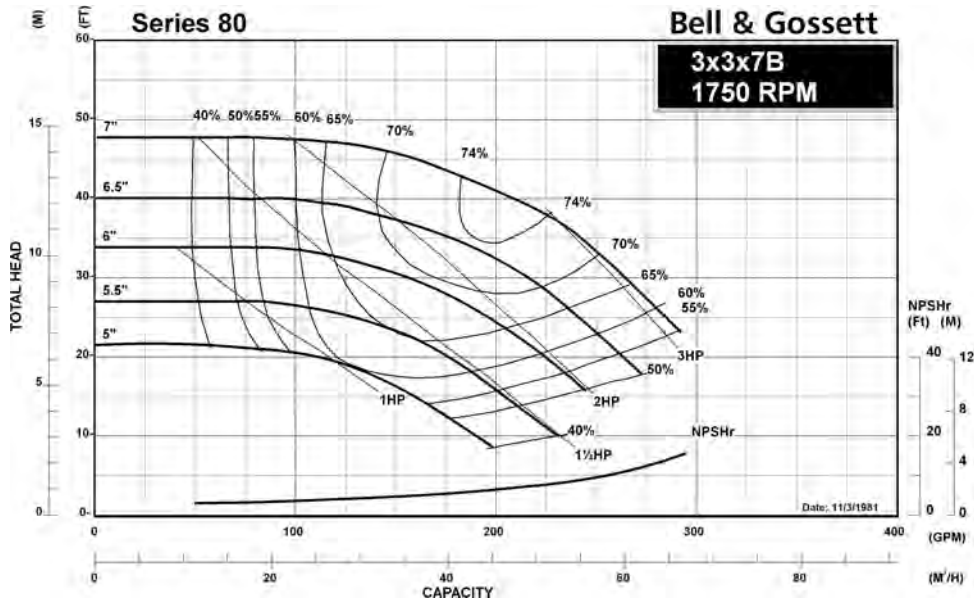
BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

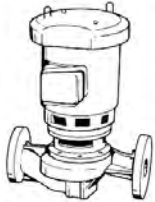
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 3x3x7B

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

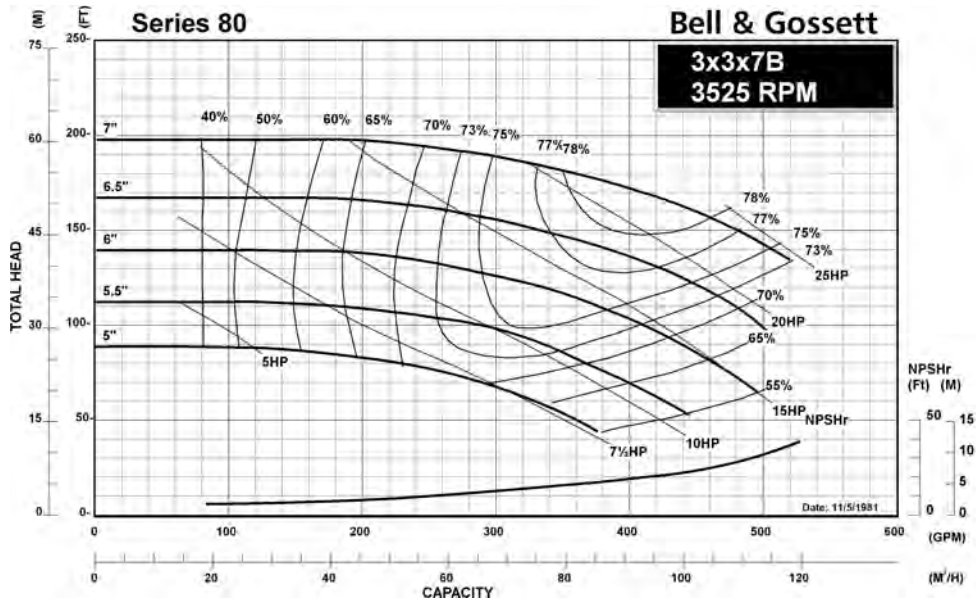
BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

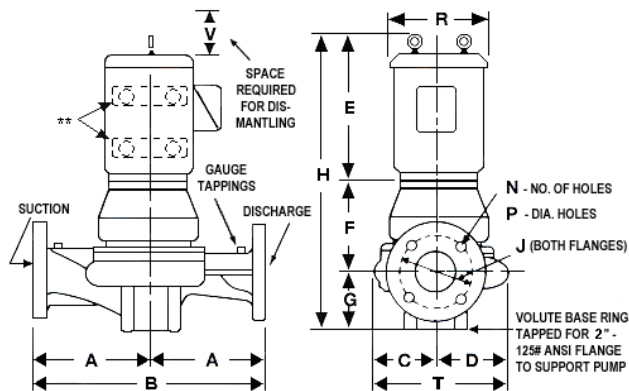
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)







FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	3"	1-1/8 (29)	8 (203)
Suction	3"	1-1/8 (29)	8 (203)

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
143	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	11-5/8 (295)	4-7/8 (124)	5-1/2 (140)	22 (559)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	9-3/4 (248)	1-1/2 (38)	11-1/2 (292)	4-1/2 (114)
145	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	12-5/8 (321)	4-7/8 (124)	5-1/2 (140)	23 (584)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	9-3/4 (248)	1-1/2 (38)	11-1/2 (292)	4-1/2 (114)
182	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	15-5/16 (389)	4-7/8 (124)	5-1/2 (140)	25-3/4 (654)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	11-3/4 (298)	1 (25)	11-1/2 (292)	4-1/2 (114)
184	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	15-5/16 (389)	4-7/8 (124)	5-1/2 (140)	25-3/4 (654)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	11-3/4 (298)	1 (25)	11-1/2 (292)	4-1/2 (114)
213	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	19-1/4 (489)	4-7/8 (124)	5-1/2 (140)	29-5/8 (752)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	14 (356)	-	11-1/2 (292)	4-1/2 (114)
215	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	19-1/4 (489)	4-7/8 (124)	5-1/2 (140)	29-5/8 (752)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	14 (356)	-	11-1/2 (292)	4-1/2 (114)
254	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	24-1/8 (613)	8-3/4 (222)	5-1/2 (140)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	17 (432)	-	11-1/2 (292)	4-1/2 (114)
256	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	24-1/8 (613)	8-3/4 (222)	5-1/2 (140)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	17 (432)	-	11-1/2 (292)	4-1/2 (114)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
143	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	11-5/8 (295)	8 (203)	5-1/2 (140)	25-1/8 (638)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	9-3/4 (248)	1-1/2 (38)	11-1/2 (292)	4-1/2 (114)
145	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	12-5/8 (321)	8 (203)	5-1/2 (140)	26-1/8 (664)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	9-3/4 (248)	1-1/2 (38)	11-1/2 (292)	4-1/2 (114)
182	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	15-5/16 (389)	8 (203)	5-1/2 (140)	28-7/8 (733)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	11-3/4 (298)	1 (25)	11-1/2 (292)	4-1/2 (114)
184	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	15-5/16 (389)	8 (203)	5-1/2 (140)	28-7/8 (733)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	11-3/4 (298)	1 (25)	11-1/2 (292)	4-1/2 (114)
213	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	19-1/4 (489)	8-3/4 (222)	5-1/2 (140)	33-1/2 (851)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	14 (356)	-	11-1/2 (292)	4-1/2 (114)
215	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	19-1/4 (489)	8-3/8 (213)	5-1/2 (140)	33-1/2 (851)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	14 (356)	-	11-1/2 (292)	4-1/2 (114)
254	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	24-1/8 (613)	8-3/4 (222)	5-1/2 (140)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	17 (432)	-	11-1/2 (292)	4-1/2 (114)
256	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	24-1/8 (613)	8-3/4 (222)	5-1/2 (140)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	17 (432)	-	11-1/2 (292)	4-1/2 (114)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.

© 2013 Xylem Inc.

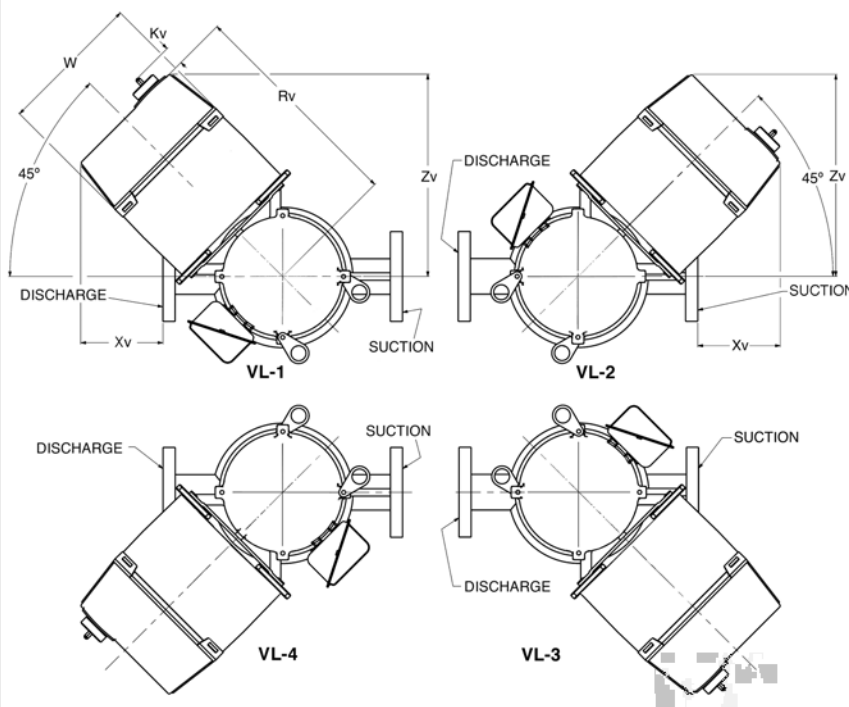
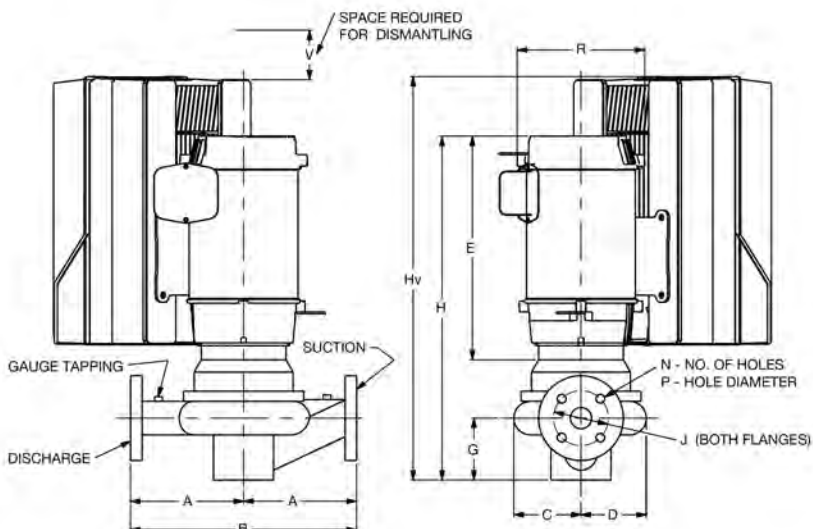




# 3x3x7B Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 3x3x7B Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

**DIMENSIONS – Inches (mm)**

**STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143	9-1/2 (241)	19 (483)	11-5/8 (295)	5-1/2 (140)	22 (559)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	28-41/64 (727)	1-53/64 (46)
145	9-1/2 (241)	19 (483)	12-5/8 (321)	5-1/2 (140)	23 (584)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	29-41/64 (753)	1-53/64 (46)
182	9-1/2 (241)	19 (483)	15-5/16 (389)	5-1/2 (140)	25-3/4 (654)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	28-29/32 (734)	2-17/32 (64)
184	9-1/2 (241)	19 (483)	15-5/16 (389)	5-1/2 (140)	25-3/4 (654)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	28-29/32 (734)	2-17/32 (64)
213	9-1/2 (241)	19 (483)	19-1/4 (489)	5-1/2 (140)	29-5/8 (752)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	32-13/64 (818)	3-1/16 (78)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	33-51/64 (858)	4-23/32 (120)
215	9-1/2 (241)	19 (483)	19-1/4 (489)	5-1/2 (140)	29-5/8 (752)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	30-47/64 (781)	3-1/16 (78)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	32-17/64 (820)	4-23/32 (120)
254	9-1/2 (241)	19 (483)	24-1/8 (613)	5-1/2 (140)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	41-3/8 (1051)	5-27/64 (138)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	45-53/64 (1164)	5-27/64 (138)
256	9-1/2 (241)	19 (483)	24-1/8 (613)	5-1/2 (140)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	40-3/4 (1035)	5-27/64 (138)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	45-13/64 (1148)	5-27/64 (138)
													C1	18-53/64 (478)	17-3/32 (434)	12-3/32 (307)	46-3/32 (1171)	7-19/32 (193)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 3X3X7B Series 80®

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control**

## STUFFING BOX 80-PF, 80-S, 80-D

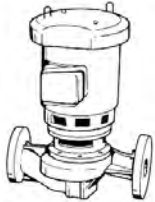
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
143	9-1/2 (241)	19 (483)	11-5/8 (295)	5-1/2 (140)	25-1/8 (638)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	31-49/64 (807)	1-53/64 (46)
145	9-1/2 (241)	19 (483)	12-5/8 (321)	5-1/2 (140)	26-1/8 (664)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	32-49/64 (832)	1-53/64 (46)
182	9-1/2 (241)	19 (483)	15-5/16 (389)	5-1/2 (140)	28-7/8 (733)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	32-1/32 (813)	2-17/32 (64)
184	9-1/2 (241)	19 (483)	15-5/16 (389)	5-1/2 (140)	28-7/8 (733)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	32-1/32 (813)	2-17/32 (64)
213	9-1/2 (241)	19 (483)	19-1/4 (489)	5-1/2 (140)	33-1/2 (851)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	36-5/64 (917)	3-1/16 (78)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	37-43/64 (957)	4-23/32 (120)
215	9-1/2 (241)	19 (483)	19-1/4 (489)	5-1/2 (140)	33-1/2 (851)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	34-39/64 (879)	3-1/16 (78)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	36-9/64 (918)	4-23/32 (120)
254	9-1/2 (241)	19 (483)	24-1/8 (613)	5-1/2 (140)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	41-3/8 (1051)	5-27/64 (138)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	45-53/64 (1164)	5-27/64 (138)
256	9-1/2 (241)	19 (483)	24-1/8 (613)	5-1/2 (140)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	40-3/4 (1035)	5-27/64 (138)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	45-13/64 (1148)	5-27/64 (138)
													C1	18-53/64 (478)	17-3/32 (434)	12-3/32 (307)	46-3/32 (1171)	7-19/32 (193)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.

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



## 3x3x9<sup>1</sup>/<sub>2</sub>B

### Series 80<sup>®</sup>

#### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

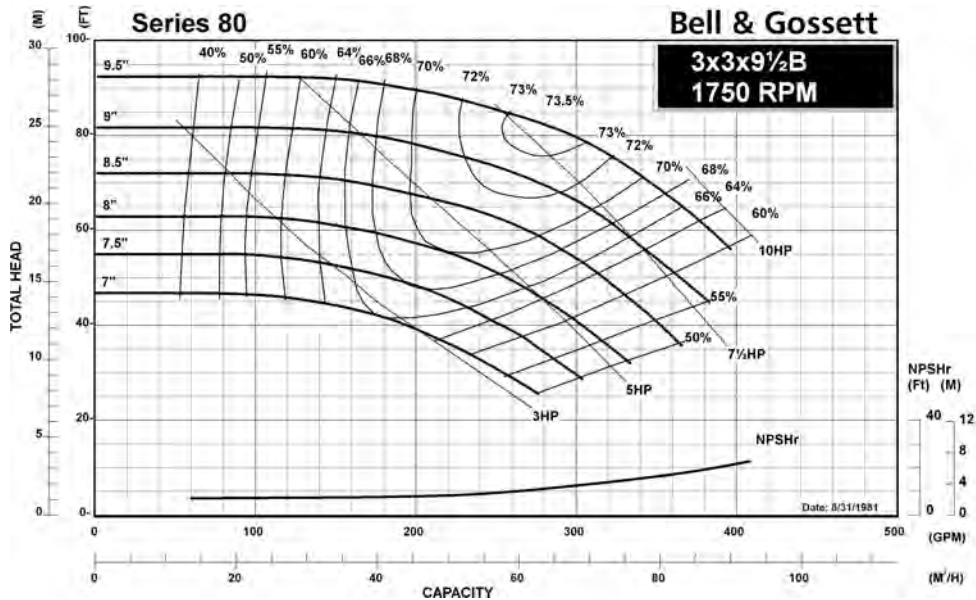
BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

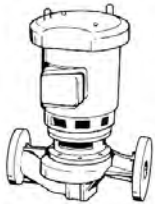
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



## 3x3x9<sup>1</sup>/<sub>2</sub>B

### Series 80<sup>®</sup>

#### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

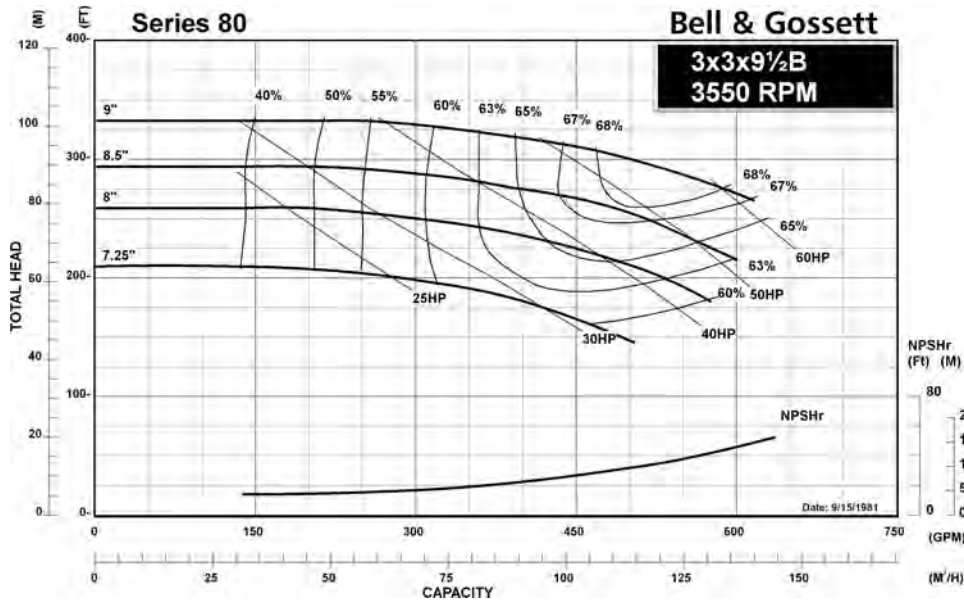
- BRONZE FITTED     ALL IRON

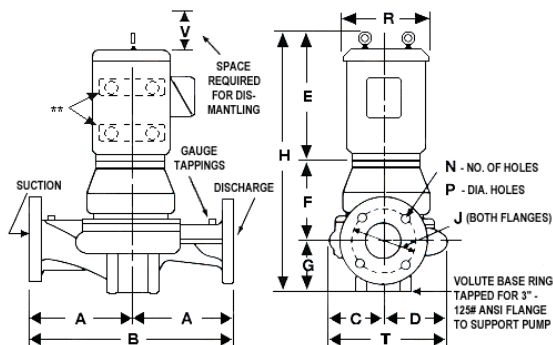
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	3"	1-1/8 (29)	8 (203)
Suction	3"	1-1/8 (29)	8 (203)

\*\* Motor may be supplied with feet

DIMENSIONS – Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (MAX)*	T	V (Min)
									J	N	P	J	N	P				
184	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	15-3/8 (391)	4-13/16 (122)	6-1/8 (156)	26-1/4 (667)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	11-3/4 (298)	5/16 (8)	14-1/8 (359)	4-1/2 (114)
213	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	19-1/4 (489)	4-13/16 (122)	6-1/8 (156)	30-1/4 (768)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	1 (25)	14-1/8 (359)	4-1/2 (114)
215	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	19-1/4 (489)	4-13/16 (122)	6-1/8 (156)	30-1/4 (768)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	2-1/2 (64)	14-1/8 (359)	4-1/2 (114)
254	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	24-1/8 (613)	8-11/16 (221)	6-1/8 (156)	39 (991)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	1 (25)	14-1/8 (359)	4-1/2 (114)
256	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	24-1/8 (613)	8-11/16 (221)	6-1/8 (156)	39 (991)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	-	17 (432)	2-3/4 (70)	14-1/8 (359)	4-1/2 (114)
284	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	22-5/8 (575)	8-11/16 (221)	6-1/8 (156)	37-3/8 (949)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	5-5/8 (143)	14-1/8 (359)	4-1/2 (114)
286	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	24-1/8 (613)	8-11/16 (221)	6-1/8 (156)	38-7/8 (987)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	5-1/4 (133)	14-1/8 (359)	4-1/2 (114)
324	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	26 (660)	8-11/16 (221)	6-1/8 (156)	40 (1016)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	5-3/8 (137)	14-1/8 (359)	4-1/2 (114)
326	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	26 (660)	8-11/16 (221)	6-1/8 (156)	40 (1016)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	6-7/8 (175)	14-1/8 (359)	4-1/2 (114)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (MAX)*	T	V (Min)
									J	N	P	J	N	P				
184	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	15-3/8 (391)	7-15/16 (202)	6-1/8 (156)	29-3/8 (746)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	11-3/4 (298)	5/16 (8)	14-1/8 (359)	4-1/2 (114)
213	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	19-1/4 (489)	8-11/16 (221)	6-1/8 (156)	34-1/8 (867)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	1 (25)	14-1/8 (359)	4-1/2 (114)
215	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	19-1/4 (489)	8-11/16 (221)	6-1/8 (156)	34-1/8 (867)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	2-1/2 (64)	14-1/8 (359)	4-1/2 (114)
254	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	24-1/8 (613)	8-11/16 (221)	6-1/8 (156)	39 (991)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	1 (25)	14-1/8 (359)	4-1/2 (114)
256	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	24-1/8 (613)	8-11/16 (221)	6-1/8 (156)	39 (991)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	2-3/4 (70)	14-1/8 (359)	4-1/2 (114)
284	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	22-5/8 (575)	8-11/16 (221)	6-1/8 (156)	37-3/8 (949)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	5-5/8 (143)	14-1/8 (359)	4-1/2 (114)
286	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	24-1/8 (613)	8-11/16 (221)	6-1/8 (156)	38-7/8 (987)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	5-1/4 (133)	14-1/8 (359)	4-1/2 (114)
324	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	26 (660)	8-11/16 (221)	6-1/8 (156)	40 (1016)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	5-3/8 (137)	14-1/8 (359)	4-1/2 (114)
326	11-1/2 (292)	23 (584)	6-5/8 (168)	7-1/2 (190)	26 (660)	8-11/16 (221)	6-1/8 (156)	40 (1016)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	6-7/8 (175)	14-1/8 (359)	4-1/2 (114)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
 8200 N. Austin Avenue  
 Morton Grove, IL 60053  
 Phone: (847)966-3700  
 Fax: (847)965-8379  
 www.bellgossett.com

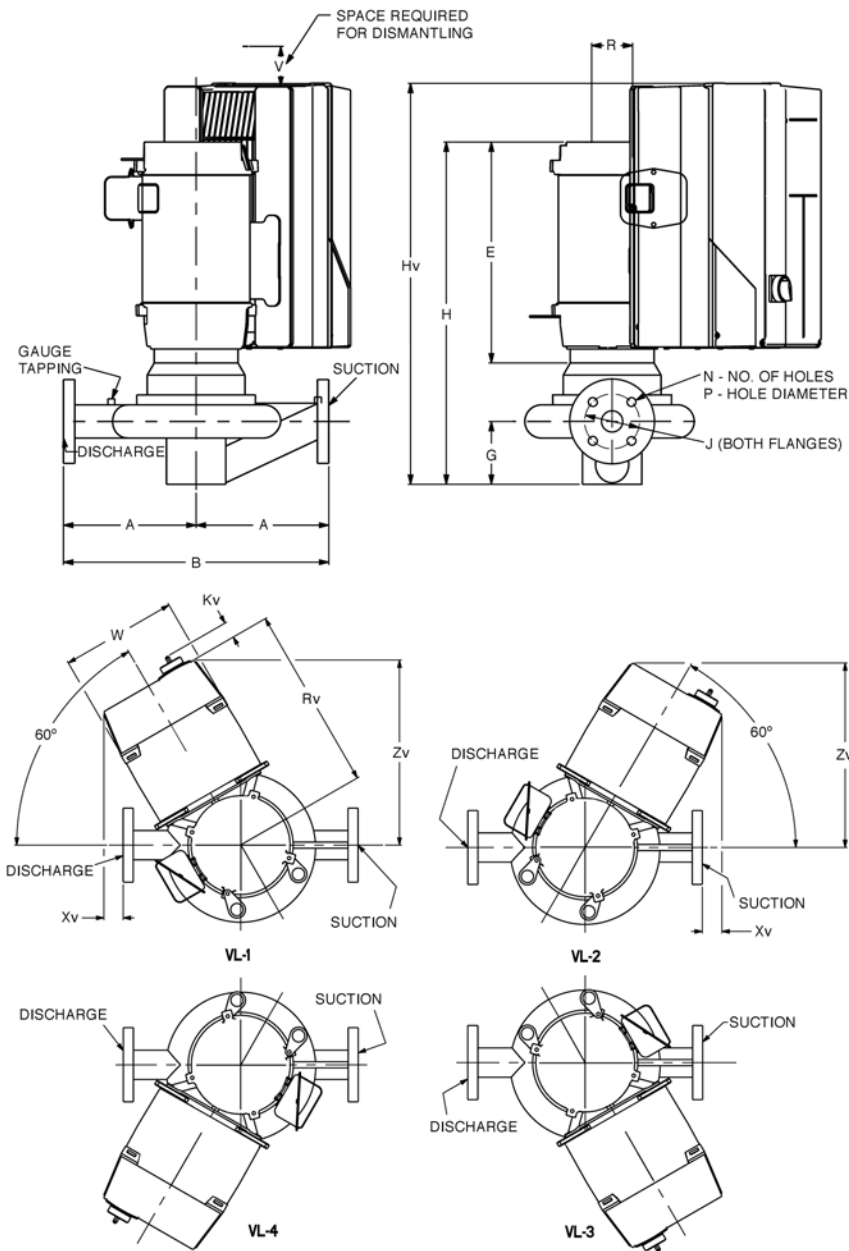




# 3x3x9<sup>1</sup>/<sub>2</sub>B Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.





# 3x3x9<sup>1</sup>/<sub>2</sub>B Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
184	11-1/2 (292)	23 (584)	15-3/8 (391)	6-1/8 (156)	26-1/4 (667)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	29-13/32 (747)	1-7/16 (37)
213	11-1/2 (292)	23 (584)	19-1/4 (489)	6-1/8 (156)	30-1/4 (768)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	32-53/64 (834)	1-1/16 (27)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	34-27/64 (874)	1/8 (3)
215	11-1/2 (292)	23 (584)	19-1/4 (489)	6-1/8 (156)	30-1/4 (768)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	31-23/64 (797)	1-1/16 (27)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	32-57/64 (836)	1/8 (3)
254	11-1/2 (292)	23 (584)	24-1/8 (613)	6-1/8 (156)	39 (991)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	46-29/64 (1180)	5/8 (16)
256	11-1/2 (292)	23 (584)	24-1/8 (613)	6-1/8 (156)	39 (991)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	-	17 (432)	B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	45-53/64 (1164)	5/8 (16)
284	11-1/2 (292)	23 (584)	22-5/8 (575)	6-1/8 (156)	37-3/8 (949)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	44-5/64 (1120)	1 (25)
286	11-1/2 (292)	23 (584)	24-1/8 (613)	6-1/8 (156)	38-7/8 (987)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	45-37/64 (1158)	1 (25)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	47-63/64 (1219)	2-29/32 (74)
324	11-1/2 (292)	23 (584)	26 (660)	6-1/8 (156)	40 (1016)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	18-7/32 (463)	9-1/2 (241)	45-11/64 (1147)	1-1/2 (38)
													C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	45-33/64 (1156)	3-13/32 (87)
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-5/64 (1272)	4-15/16 (126)
326	11-1/2 (292)	23 (584)	26 (660)	6-1/8 (156)	40 (1016)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	45-33/64 (1156)	3-13/32 (87)
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-5/64 (1272)	4-15/16 (126)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.





# 3x3x9<sup>1</sup>/<sub>2</sub>B Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## STUFFING BOX 80-PF, 80-S, 80-D

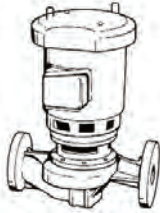
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
184	11-1/2 (292)	23 (584)	15-3/8 (391)	6-1/8 (156)	29-3/8 (746)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	32-17/32 (826)	1-7/16 (37)
213	11-1/2 (292)	23 (584)	19-1/4 (489)	6-1/8 (156)	34-1/8 (867)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	36-45/64 (932)	1-1/16 (27)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	38-19/64 (973)	1/8 (3)
215	11-1/2 (292)	23 (584)	19-1/4 (489)	6-1/8 (156)	34-1/8 (867)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	35-15/64 (895)	1-1/16 (27)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	36-49/64 (934)	1/8 (3)
254	11-1/2 (292)	23 (584)	24-1/8 (613)	6-1/8 (156)	39 (991)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	46-29/64 (1180)	5/8 (16)
256	11-1/2 (292)	23 (584)	24-1/8 (613)	6-1/8 (156)	39 (991)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	45-53/64 (1164)	5/8 (16)
284	11-1/2 (292)	23 (584)	22-5/8 (575)	6-1/8 (156)	37-3/8 (949)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	44-5/64 (1120)	1 (25)
286	11-1/2 (292)	23 (584)	24-1/8 (613)	6-1/8 (156)	38-7/8 (987)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	45-37/64 (1158)	1 (25)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	47-63/64 (1219)	2-29/32 (74)
324	11-1/2 (292)	23 (584)	26 (660)	6-1/8 (156)	40 (1016)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	18-7/32 (463)	9-1/2 (241)	45-11/64 (1147)	1-1/2 (38)
													C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	45-33/64 (1156)	3-13/32 (87)
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-5/64 (1272)	4-15/16 (126)
326	11-1/2 (292)	23 (584)	26 (660)	6-1/8 (156)	40 (1016)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	45-33/64 (1156)	3-13/32 (87)
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	50-5/64 (1272)	4-15/16 (126)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.

JOB: _____  UNIT TAG: _____ ENGINEER: _____ CONTRACTOR: _____	REPRESENTATIVE: _____  ORDER NO. _____ SUBMITTED BY: _____ APPROVED BY: _____	DATE: _____ DATE: _____ DATE: _____
---	---	---



# 3x3x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 APPROX. WEIGHT \_\_\_\_\_  
 SPECIALS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

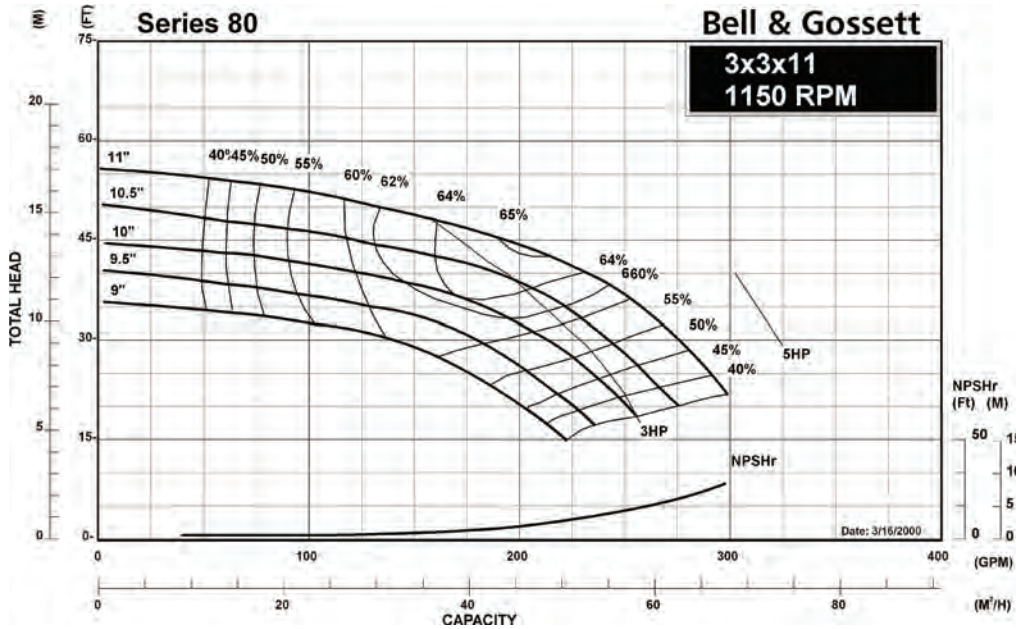
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

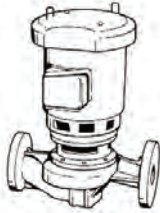
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling  
 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)  
 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)  
 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)  
 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)  
 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source  
 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated Teflon)



JOB: _____  UNIT TAG: _____ ENGINEER: _____ CONTRACTOR: _____	REPRESENTATIVE: _____  ORDER NO. _____ SUBMITTED BY: _____ APPROVED BY: _____  DATE: _____ DATE: _____ DATE: _____
---	--



# 3x3x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 APPROX. WEIGHT \_\_\_\_\_  
 SPECIALS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

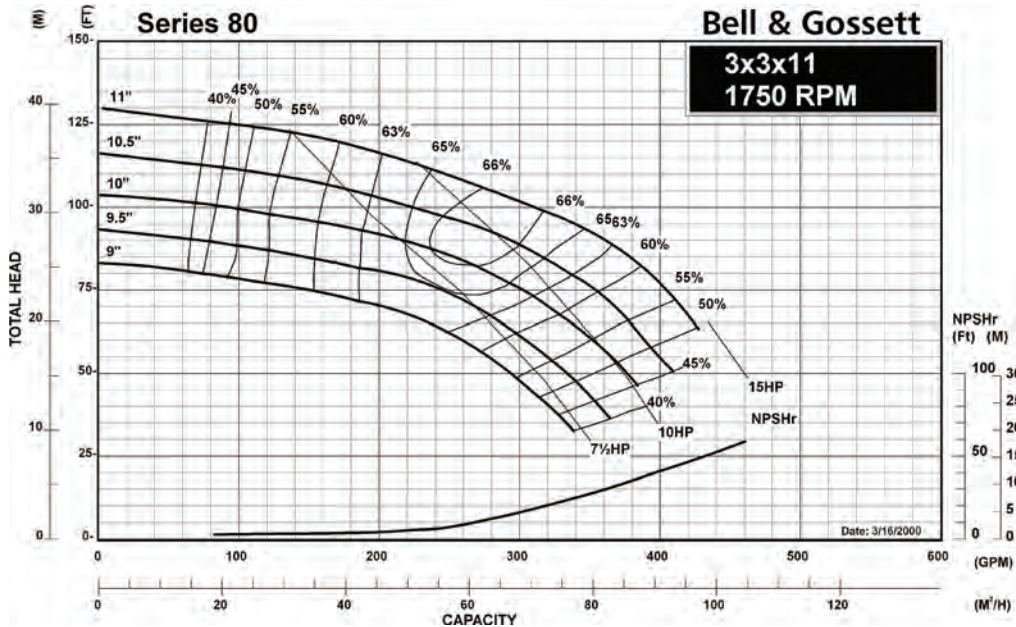
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

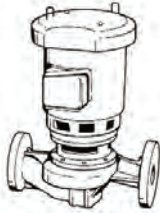
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling  
 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)  
 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)  
 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)  
 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)  
 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source  
 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated Teflon)



JOB: _____  UNIT TAG: _____ ENGINEER: _____ CONTRACTOR: _____	REPRESENTATIVE: _____  ORDER NO. _____ SUBMITTED BY: _____ APPROVED BY: _____	DATE: _____ DATE: _____ DATE: _____
---	---	---



# 3x3x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 APPROX. WEIGHT \_\_\_\_\_  
 SPECIALS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

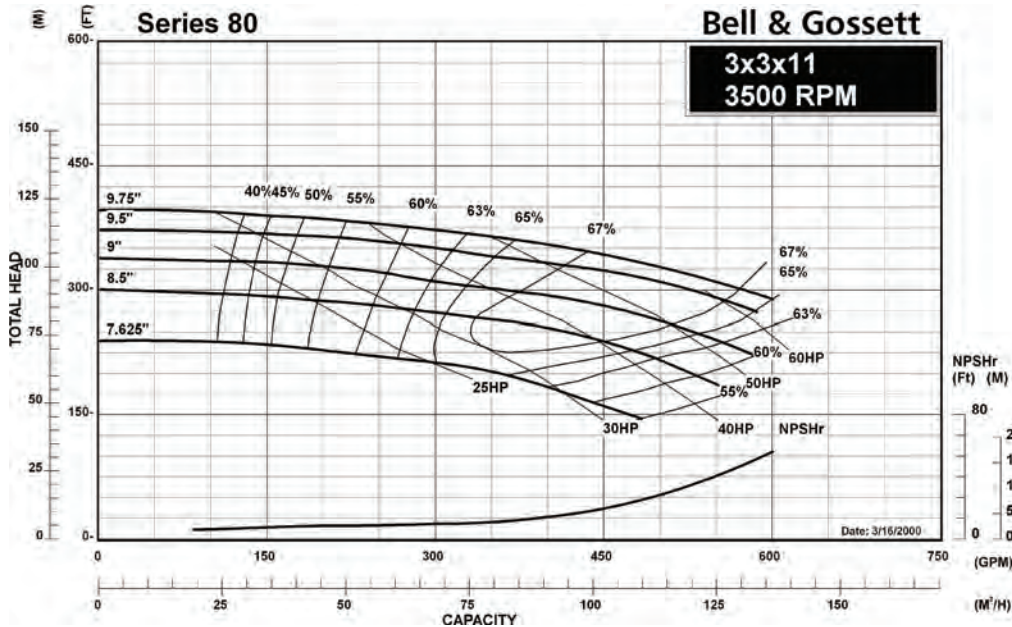
- BRONZE FITTED     ALL IRON

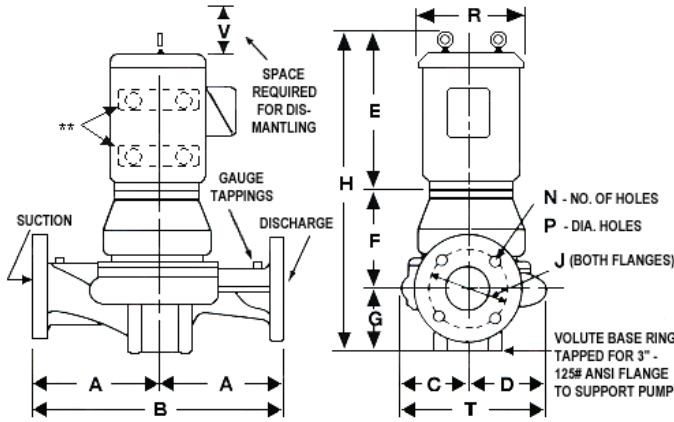
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling  
 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)  
 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)  
 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)  
 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)  
 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source  
 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated Teflon)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	3"	1-5/16 (33)	8 (203)
Suction	3"	1-5/16 (33)	8 (203)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
213	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	19-1/4 (489)	4-3/16 (106)	6-3/4 (171)	30-3/16 (767)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	-	14-9/16 (370)	5-3/4 (146)
215	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	19-1/4 (489)	4-3/16 (106)	6-3/4 (171)	30-3/16 (767)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	-	14-9/16 (370)	5-3/4 (146)
254	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	24-1/8 (613)	7-1/2 (190)	6-3/4 (171)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	-	14-9/16 (370)	5-3/4 (146)
256	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	24-1/8 (613)	7-1/2 (190)	6-3/4 (171)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	-	14-9/16 (370)	5-3/4 (146)
284	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	23-5/8 (600)	7-1/2 (190)	6-3/4 (171)	37-7/8 (962)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	14-9/16 (370)	5-3/4 (146)
286	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	25-1/8 (638)	7-1/2 (190)	6-3/4 (171)	39-3/8 (1000)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	14-9/16 (370)	5-3/4 (146)
324	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	26 (660)	7-1/2 (190)	6-3/4 (171)	40-1/4 (1022)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	4-5/8 (117)	14-9/16 (370)	5-3/4 (146)
326	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	26 (660)	7-1/2 (190)	6-3/4 (171)	40-1/4 (1022)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	4-5/8 (117)	14-9/16 (370)	5-3/4 (146)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
213	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	19-1/4 (489)	7-3/16 (183)	6-3/4 (171)	33-3/16 (843)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	-	14-9/16 (370)	5-3/4 (146)
215	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	19-1/4 (489)	7-3/16 (183)	6-3/4 (171)	33-3/16 (843)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	14 (356)	-	14-9/16 (370)	5-3/4 (146)
254	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	24-1/8 (613)	7-1/2 (190)	6-3/4 (171)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	-	14-9/16 (370)	5-3/4 (146)
256	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	24-1/8 (613)	7-1/2 (190)	6-3/4 (171)	38-3/8 (975)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	17 (432)	-	14-9/16 (370)	5-3/4 (146)
284	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	23-5/8 (600)	7-1/2 (190)	6-3/4 (171)	37-7/8 (962)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	14-9/16 (370)	5-3/4 (146)
286	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	25-1/8 (638)	7-1/2 (190)	6-3/4 (171)	39-3/8 (1000)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	14-9/16 (370)	5-3/4 (146)
324	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	26 (660)	7-1/2 (190)	6-3/4 (171)	40-1/4 (1022)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	4-5/8 (117)	14-9/16 (370)	5-3/4 (146)
326	12 (305)	24 (610)	6-15/16 (176)	7-5/8 (194)	26 (660)	7-1/2 (190)	6-3/4 (171)	40-1/4 (1022)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	18-3/4 (476)	4-5/8 (117)	14-9/16 (370)	5-3/4 (146)

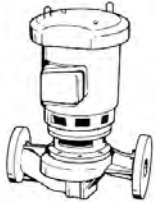
Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E & H.



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



# 4x4x7

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

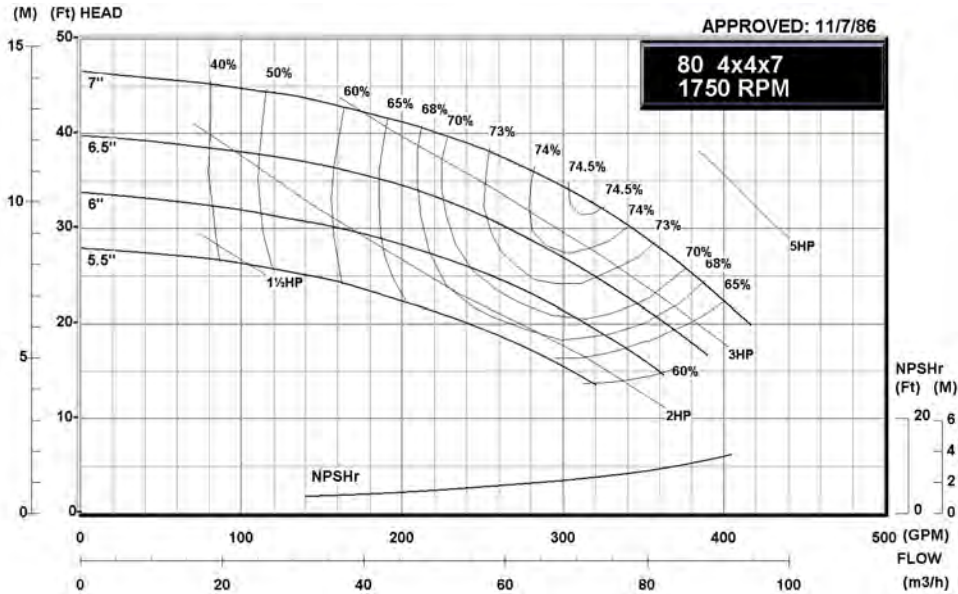
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

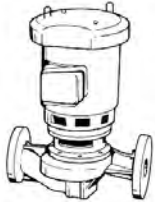
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 4x4x7

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

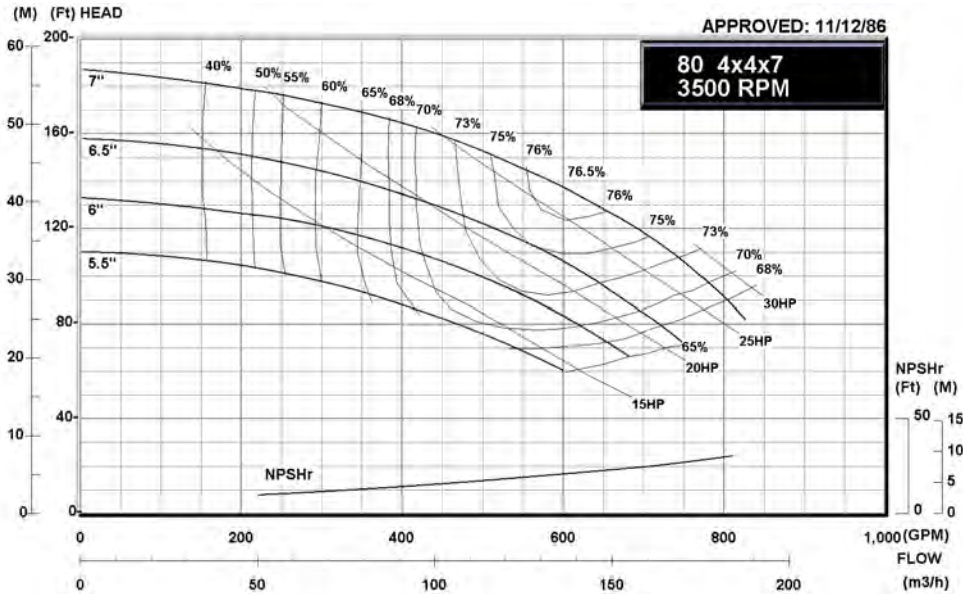
- BRONZE FITTED     ALL IRON

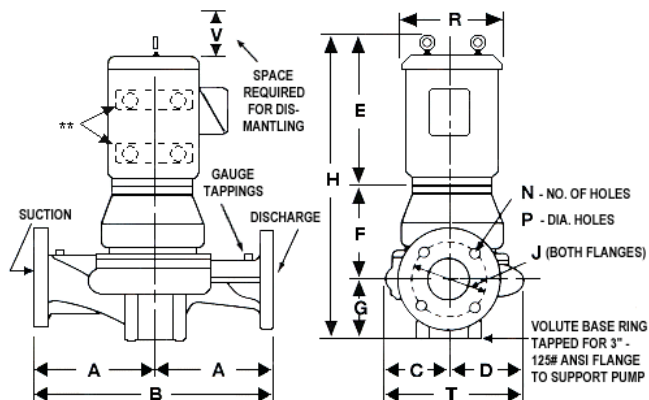
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	4"	1-1/4 (32)	9-1/2 (241)
Suction	4"	1-1/4 (32)	9-1/2 (241)

Flanges are 125# ANSI - Standard  
250# ANSI - Available

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max) <sup>*</sup>	T	V (Min)
									J	N	P	J	N	P				
145	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	12-5/8 (321)	5-1/8 (130)	6-3/8 (162)	24-1/8 (613)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	9-3/4 (248)	1-1/2 (38)	12-1/4 (311)	5 (127)
182	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	15-5/16 (389)	5-1/8 (130)	6-3/8 (162)	26-13/16 (681)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	12-1/4 (311)	5 (127)
184	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	15-5/16 (389)	5-1/8 (130)	6-3/8 (162)	26-13/16 (681)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	12-1/4 (311)	5 (127)
213	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	19-1/4 (489)	5-1/8 (130)	6-3/8 (162)	30-3/4 (781)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	-	-	12-1/4 (311)	5 (127)
215	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	19-1/4 (489)	5-1/8 (130)	6-3/8 (162)	30-3/4 (781)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	-	-	12-1/4 (311)	5 (127)
254	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	24-1/8 (613)	9 (229)	6-3/8 (162)	39-1/2 (1003)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	12-1/4 (311)	5 (127)
256	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	24-1/8 (613)	9 (229)	6-3/8 (162)	39-1/2 (1003)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	12-1/4 (311)	5 (127)
284	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	23-5/8 (600)	9 (229)	6-3/8 (162)	39 (991)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	12-1/4 (311)	5 (127)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max) <sup>*</sup>	T	V (Min)
									J	N	P	J	N	P				
145	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	12-5/8 (321)	8-1/4 (210)	6-3/8 (162)	27-1/4 (692)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	9-3/4 (248)	1-1/2 (38)	12-1/4 (311)	5 (127)
182	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	15-5/16 (389)	8-1/4 (210)	6-3/8 (162)	29-15/16 (760)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	12-1/4 (311)	5 (127)
184	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	15-5/16 (389)	8-1/4 (210)	6-3/8 (162)	29-15/16 (760)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	12-1/4 (311)	5 (127)
213	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	19-1/4 (489)	9 (229)	6-3/8 (162)	34-5/8 (879)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	12-1/4 (311)	5 (127)
215	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	19-1/4 (489)	9 (229)	6-3/8 (162)	34-5/8 (879)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	12-1/4 (311)	5 (127)
254	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	24-1/8 (613)	9 (229)	6-3/8 (162)	39-1/2 (1003)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	12-1/4 (311)	5 (127)
256	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	24-1/8 (613)	9 (229)	6-3/8 (162)	39-1/2 (1003)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	12-1/4 (311)	5 (127)
284	10-1/2 (267)	21 (533)	5-1/2 (140)	6-3/4 (171)	23-5/8 (600)	9 (229)	6-3/8 (162)	39 (991)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	16-1/8 (410)	4-5/8 (117)	12-1/4 (311)	5 (127)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

<sup>\*</sup>For TEFC Motors add S dimension to dimensions E & H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com







# 4x4x7 Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

**DIMENSIONS – Inches (mm)**

**STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
145	10-1/2 (267)	21 (533)	12-5/8 (321)	6-3/8 (162)	24-1/8 (613)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	30-49/64 (781)	53/64 (21)
182	10-1/2 (267)	21 (533)	15-5/16 (389)	6-3/8 (162)	26-13/16 (681)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	29-31/32 (761)	1-17/32 (39)
184	10-1/2 (267)	21 (533)	15-5/16 (389)	6-3/8 (162)	26-13/16 (681)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	29-31/32 (761)	1-17/32 (39)
213	10-1/2 (267)	21 (533)	19-1/4 (489)	6-3/8 (162)	30-3/4 (781)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	34-59/64 (887)	3-23/32 (94)
215	10-1/2 (267)	21 (533)	19-1/4 (489)	6-3/8 (162)	30-3/4 (781)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	33-25/64 (848)	3-23/32 (94)
254	10-1/2 (267)	21 (533)	24-1/8 (613)	6-3/8 (162)	39-1/2 (1003)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	42-1/2 (1079)	4-27/64 (112)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	46-61/64 (1193)	4-27/64 (112)
256	10-1/2 (267)	21 (533)	24-1/8 (613)	6-3/8 (162)	39-1/2 (1003)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	41-7/8 (1063)	4-27/64 (112)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	46-21/64 (1177)	4-27/64 (112)
													C1	18-53/64 (478)	17-3/32 (434)	12-3/32 (307)	47-7/32 (1200)	6-19/32 (167)
284	10-1/2 (267)	21 (533)	23-5/8 (600)	6-3/8 (162)	39 (991)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	41-1/4 (1048)	4-61/64 (126)
													B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	45-45/64 (1161)	4-61/64 (126)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	48-7/64 (1222)	7-1/8 (181)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 4x4x7 Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

## STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
145	10-1/2 (267)	21 (533)	12-5/8 (321)	6-3/8 (162)	27-1/4 (692)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	9-3/4 (248)	A5	11-25/32 (299)	11-21/64 (288)	9-1/2 (241)	33-57/64 (861)	53/64 (21)
182	10-1/2 (267)	21 (533)	15-5/16 (389)	6-3/8 (162)	29-15/16 (760)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	33-3/32 (840)	1-17/32 (39)
184	10-1/2 (267)	21 (533)	15-5/16 (389)	6-3/8 (162)	29-15/16 (760)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	33-3/32 (840)	1-17/32 (39)
213	10-1/2 (267)	21 (533)	19-1/4 (489)	6-3/8 (162)	34-5/8 (879)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	38-51/64 (985)	3-23/32 (94)
215	10-1/2 (267)	21 (533)	19-1/4 (489)	6-3/8 (162)	34-5/8 (879)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	37-17/64 (947)	3-23/32 (94)
254	10-1/2 (267)	21 (533)	24-1/8 (613)	6-3/8 (162)	39-1/2 (1003)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	42-1/2 (1079)	4-27/64 (112)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	46-61/64 (1193)	4-27/64 (112)
256	10-1/2 (267)	21 (533)	24-1/8 (613)	6-3/8 (162)	39-1/2 (1003)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	41-7/8 (1063)	4-27/64 (112)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	46-21/64 (1177)	4-27/64 (112)
													C1	18-53/64 (478)	17-3/32 (434)	12-3/32 (307)	47-7/32 (1200)	6-19/32 (167)
284	10-1/2 (267)	21 (533)	23-5/8 (600)	6-3/8 (162)	39 (991)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	41-1/4 (1048)	4-61/64 (126)
													B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	45-45/64 (1161)	4-61/64 (126)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	48-7/64 (1222)	7-1/8 (181)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

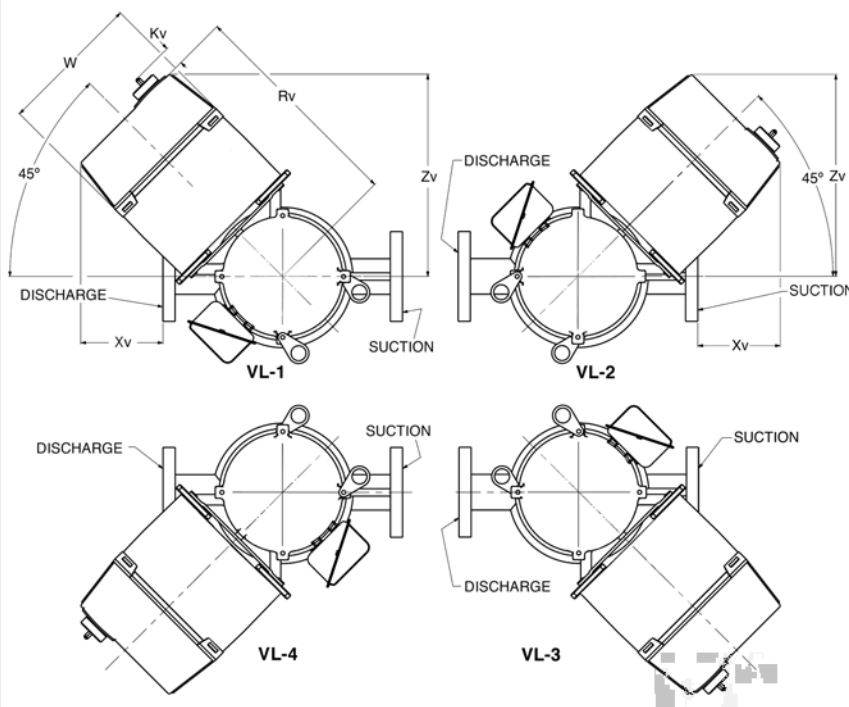
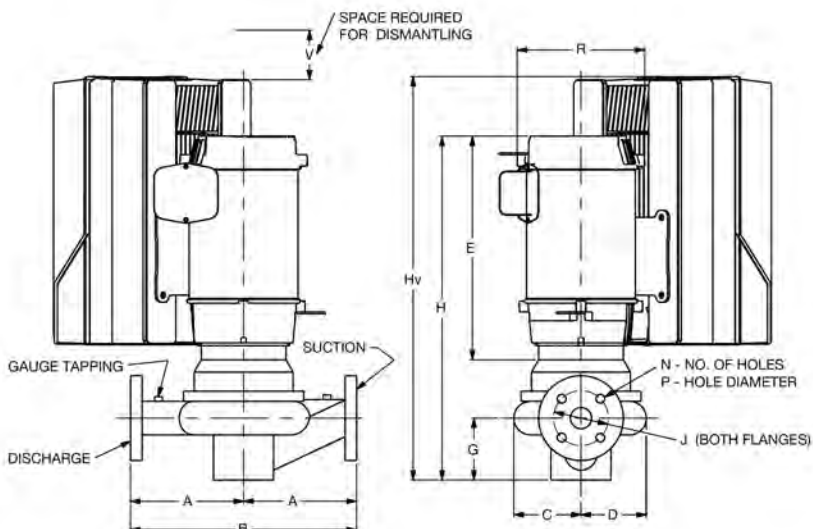
Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.



# 4x4x7 Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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

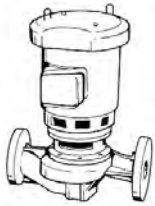


Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.

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



# 4x4x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

## In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

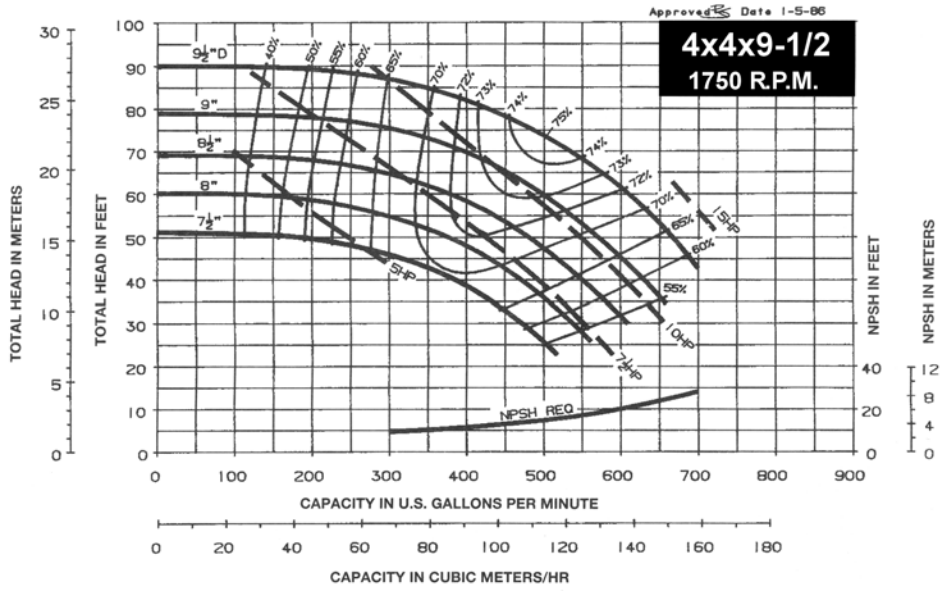
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

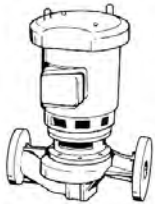
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 4x4x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

## In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

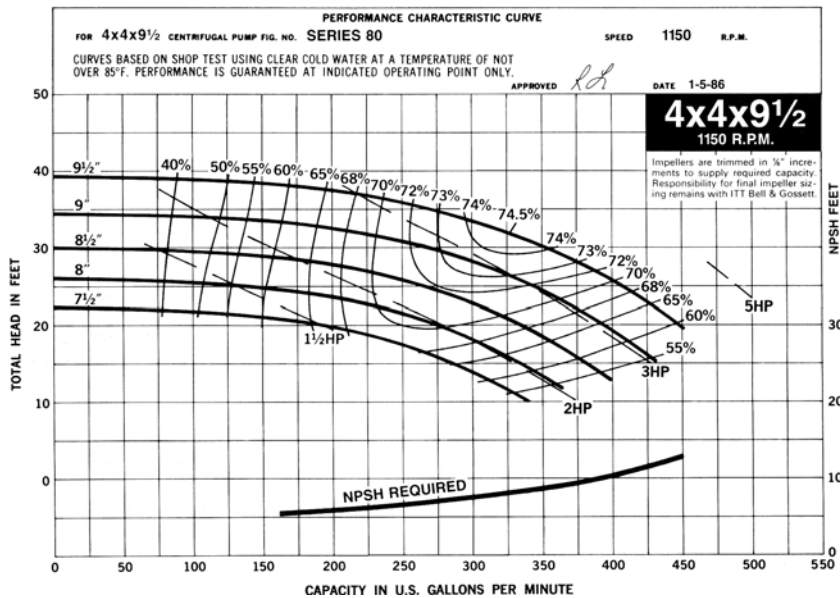
- BRONZE FITTED     ALL IRON

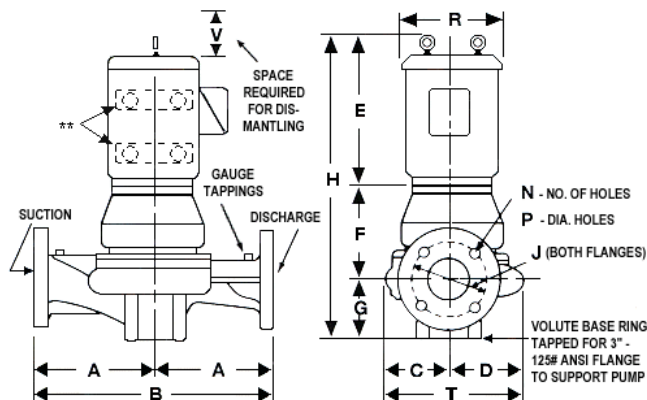
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	4"	1-1/4 (32)	9-1/2 (241)
Suction	4"	1-1/4 (32)	9-1/2 (241)

\*\* Motor may be supplied with feet

**DIMENSIONS - Inches (mm) STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
182	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	15-5/16 (389)	5-1/8 (130)	7-1/8 (181)	27-9/16 (700)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	15-3/4 (400)	5 (127)
184	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	15-5/16 (389)	5-1/8 (130)	7-1/8 (181)	27-9/16 (700)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	15-3/4 (400)	5 (127)
213	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	19-1/4 (489)	5-1/8 (130)	7-1/8 (181)	31-1/2 (800)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	15-3/4 (400)	5 (127)
215	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	19-1/4 (489)	5-1/8 (130)	7-1/8 (181)	31-1/2 (800)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	15-3/4 (400)	5 (127)
254	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	24-1/8 (613)	9 (229)	7-1/8 (181)	40-1/4 (1022)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	15-3/4 (400)	5 (127)

**STUFFING BOX 80-PF, 80-S, 80-D**

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
182	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	15-5/16 (389)	8-1/4 (210)	7-1/8 (181)	30-11/16 (779)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	15-3/4 (400)	5 (127)
184	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	15-5/16 (389)	8-1/4 (210)	7-1/8 (181)	30-11/16 (779)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	15-3/4 (400)	5 (127)
213	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	19-1/4 (489)	9 (229)	7-1/8 (181)	35-3/8 (899)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	15-3/4 (400)	5 (127)
215	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	19-1/4 (489)	9 (229)	7-1/8 (181)	35-5/8 (905)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	15-3/4 (400)	5 (127)
254	12-1/2 (318)	25 (635)	7-1/4 (184)	8-1/2 (216)	24-1/8 (613)	9 (229)	7-1/8 (181)	40-1/4 (1022)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	15-3/4 (400)	5 (127)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
 8200 N. Austin Avenue  
 Morton Grove, IL 60053  
 Phone: (847)966-3700  
 Fax: (847)965-8379  
 www.bellgossett.com

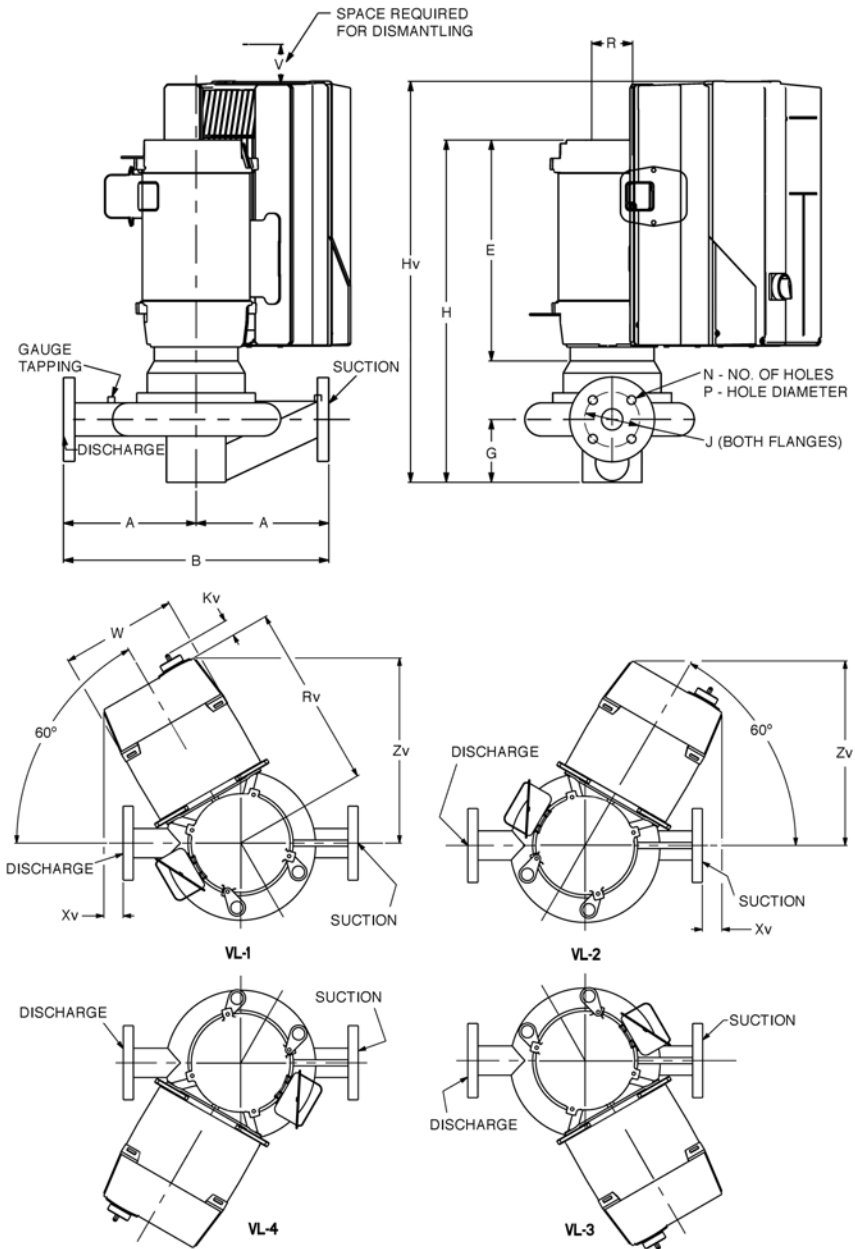




# 4x4x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 4x4x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
182	12-1/2 (318)	25 (635)	15-5/16 (389)	7-1/8 (181)	27-9/16 (700)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	30-23/32 (780)	2-7/16 (62)
184	12-1/2 (318)	25 (635)	15-5/16 (389)	7-1/8 (181)	27-9/16 (700)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	30-23/32 (780)	2-7/16 (62)
213	12-1/2 (318)	25 (635)	19-1/4 (489)	7-1/8 (181)	31-1/2 (800)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	34-5/64 (866)	2-1/16 (52)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	35-43/64 (906)	7/8 (22)
215	12-1/2 (318)	25 (635)	19-1/4 (489)	7-1/8 (181)	31-1/2 (800)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	32-39/64 (828)	2-1/16 (52)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	34-9/64 (867)	7/8 (22)
254	12-1/2 (318)	25 (635)	24-1/8 (613)	7-1/8 (181)	40-1/4 (1022)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	43-1/4 (1098)	3/8 (10)

## STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
182	12-1/2 (318)	25 (635)	15-5/16 (389)	7-1/8 (181)	30-11/16 (779)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	33-27/32 (859)	2-7/16 (62)
184	12-1/2 (318)	25 (635)	15-5/16 (389)	7-1/8 (181)	30-11/16 (779)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	13-3/16 (335)	9-1/2 (241)	33-27/32 (859)	2-7/16 (62)
213	12-1/2 (318)	25 (635)	19-1/4 (489)	7-1/8 (181)	35-3/8 (899)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	37-61/64 (964)	2-1/16 (52)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	39-35/64 (1005)	7/8 (22)
215	12-1/2 (318)	25 (635)	19-1/4 (489)	7-1/8 (181)	35-5/8 (905)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	36-47/64 (933)	2-1/16 (52)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	38-17/64 (972)	7/8 (22)
254	12-1/2 (318)	25 (635)	24-1/8 (613)	7-1/8 (181)	40-1/4 (1022)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	43-1/4 (1098)	3/8 (10)

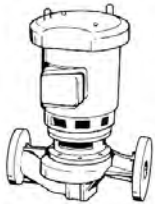
Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



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



# 4x4x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

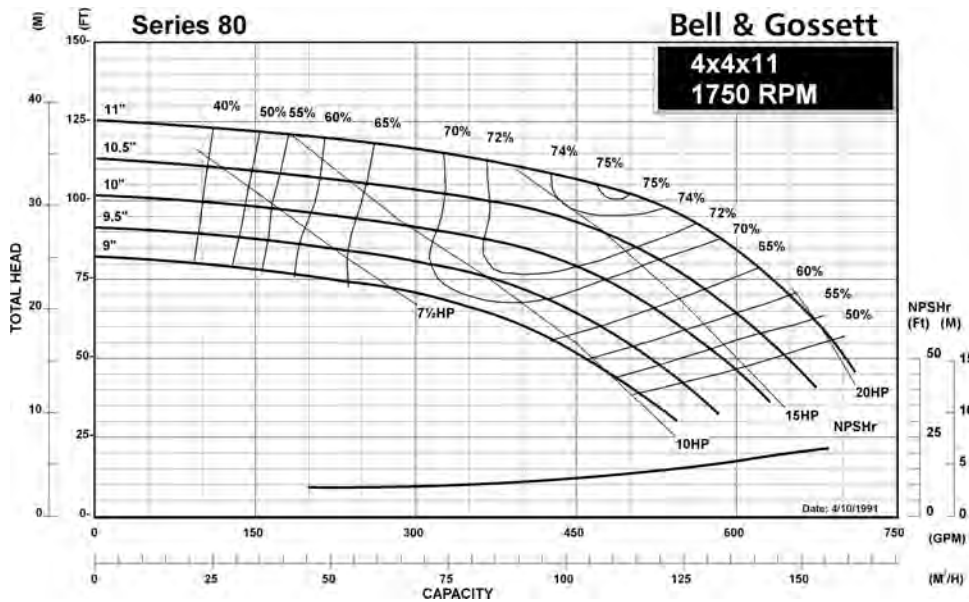
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

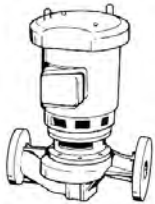
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 4x4x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

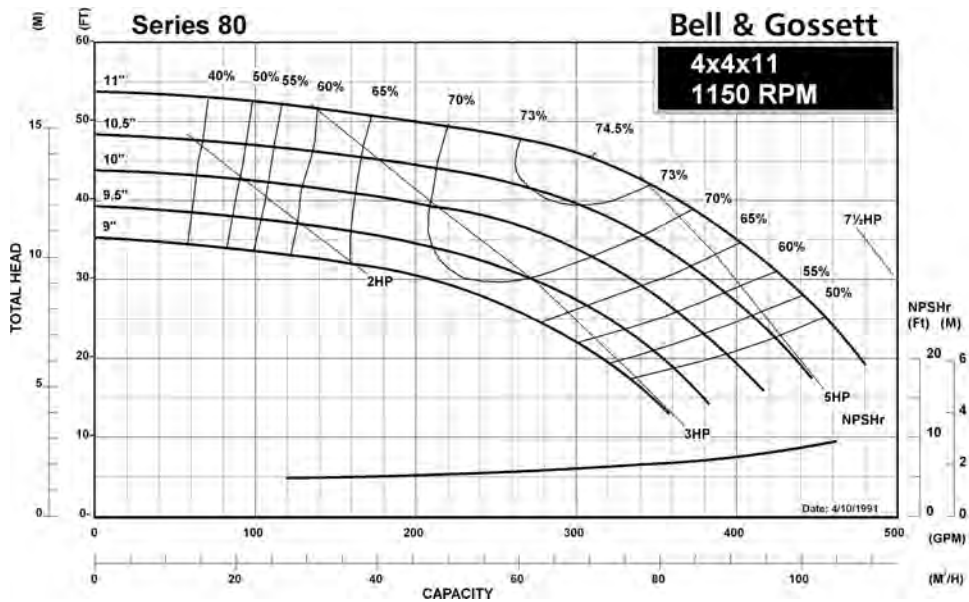
- BRONZE FITTED     ALL IRON

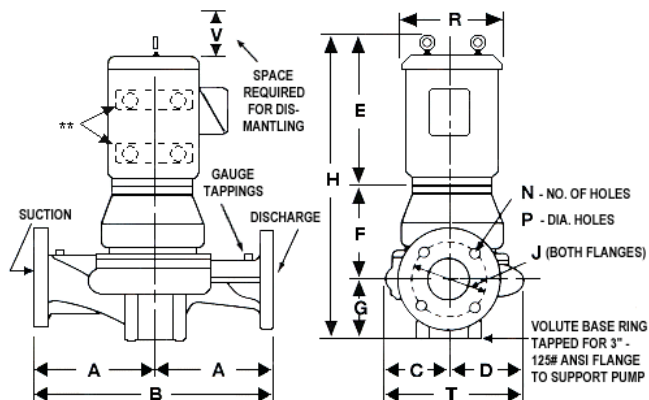
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	4"	1-1/4 (32)	9-1/2 (241)
Suction	4"	1-1/4 (32)	9-1/2 (241)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
184	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	15-5/16 (389)	4-3/8 (111)	7-1/2 (190)	27-3/16 (691)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	16-1/8 (410)	5-1/4 (133)
213	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	19-1/4 (489)	4-3/8 (111)	7-1/2 (190)	32-1/8 (816)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	16-1/8 (410)	5-1/4 (133)
215	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	19-1/4 (489)	4-3/8 (111)	7-1/2 (190)	32-1/8 (816)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	16-1/8 (410)	5-1/4 (133)
254	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	24-1/8 (613)	7-11/16 (195)	7-1/2 (190)	39-5/16 (999)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	16-1/8 (410)	5-1/4 (133)
256	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	24-1/8 (613)	7-11/16 (195)	7-1/2 (190)	39-5/16 (999)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	16-1/8 (410)	5-1/4 (133)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
184	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	15-5/16 (389)	7-3/8 (187)	7-1/2 (190)	30-3/16 (767)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	1 (25)	16-1/8 (410)	5-1/4 (133)
213	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	19-1/4 (489)	7-3/8 (187)	7-1/2 (190)	35-1/8 (892)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	16-1/8 (410)	5-1/4 (133)
215	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	19-1/4 (489)	7-3/8 (187)	7-1/2 (190)	35-1/8 (892)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	-	16-1/8 (410)	5-1/4 (133)
254	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	24-1/8 (613)	7-11/16 (195)	7-1/2 (190)	39-5/16 (999)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	16-1/8 (410)	5-1/4 (133)
256	13 (330)	26 (660)	7-9/16 (192)	8-9/16 (217)	24-1/8 (613)	7-11/16 (195)	7-1/2 (190)	39-5/16 (999)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	-	16-1/8 (410)	5-1/4 (133)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

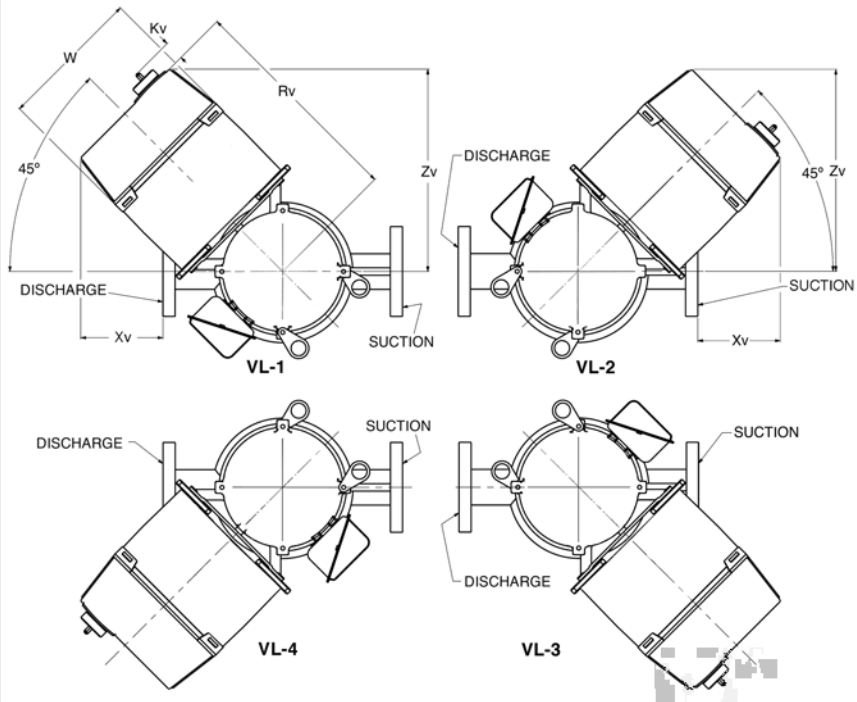
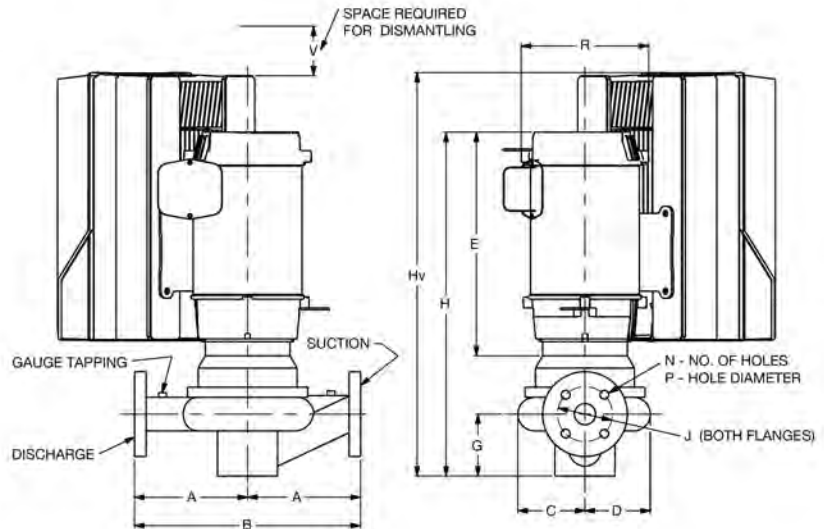




# 4x4x11 Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 4x4x11 Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
184	13 (330)	26 (660)	15-5/16 (389)	7-1/2 (190)	27-3/16 (691)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	30-11/32 (771)	31/32 (25)
213	13 (330)	26 (660)	19-1/4 (489)	7-1/2 (190)	32-1/8 (816)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	34-45/64 (882)	7/16 (11)
215	13 (330)	26 (660)	19-1/4 (489)	7-1/2 (190)	32-1/8 (816)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	33-15/64 (844)	7/16 (11)
254	13 (330)	26 (660)	24-1/8 (613)	7-1/2 (190)	39-5/16 (999)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	39-5/16 (999)	17/64 (7)
													B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	42-5/16 (1075)	1-59/64 (49)
256	13 (330)	26 (660)	24-1/8 (613)	7-1/2 (190)	39-5/16 (999)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	41-11/16 (1059)	1-59/64 (49)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	46-9/64 (1172)	1-59/64 (49)

## STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
184	13 (330)	26 (660)	15-5/16 (389)	7-1/2 (190)	30-3/16 (767)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	33-11/32 (847)	31/32 (25)
213	13 (330)	26 (660)	19-1/4 (489)	7-1/2 (190)	35-1/8 (892)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	37-45/64 (958)	7/16 (11)
215	13 (330)	26 (660)	19-1/4 (489)	7-1/2 (190)	35-1/8 (892)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	36-15/64 (920)	7/16 (11)
254	13 (330)	26 (660)	24-1/8 (613)	7-1/2 (190)	39-5/16 (999)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	39-5/16 (999)	17/64 (7)
													B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	42-5/16 (1075)	1-59/64 (49)
256	13 (330)	26 (660)	24-1/8 (613)	7-1/2 (190)	39-5/16 (999)	7-1/2 (190)	8	3/4 (19)	7-7/8 (200)	8	7/8 (22)	17 (432)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	41-11/16 (1059)	1-59/64 (49)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	46-9/64 (1172)	1-59/64 (49)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.

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



# 5x5x7 Series 80<sup>®</sup> In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 APPROX. WEIGHT \_\_\_\_\_  
 SPECIALS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

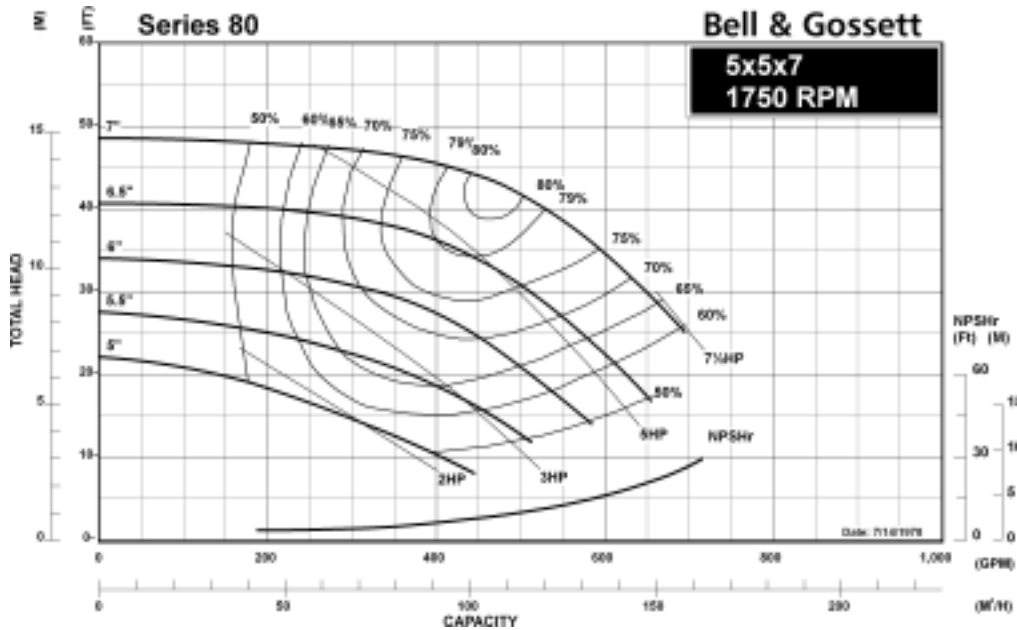
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated Teflon)



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



# 5x5x7 Series 80<sup>®</sup> In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

FLOW \_\_\_\_\_ HEAD \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_  
 VOLTS \_\_\_\_\_  
 CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_  
 ENCLOSURE \_\_\_\_\_  
 APPROX. WEIGHT \_\_\_\_\_  
 SPECIALS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

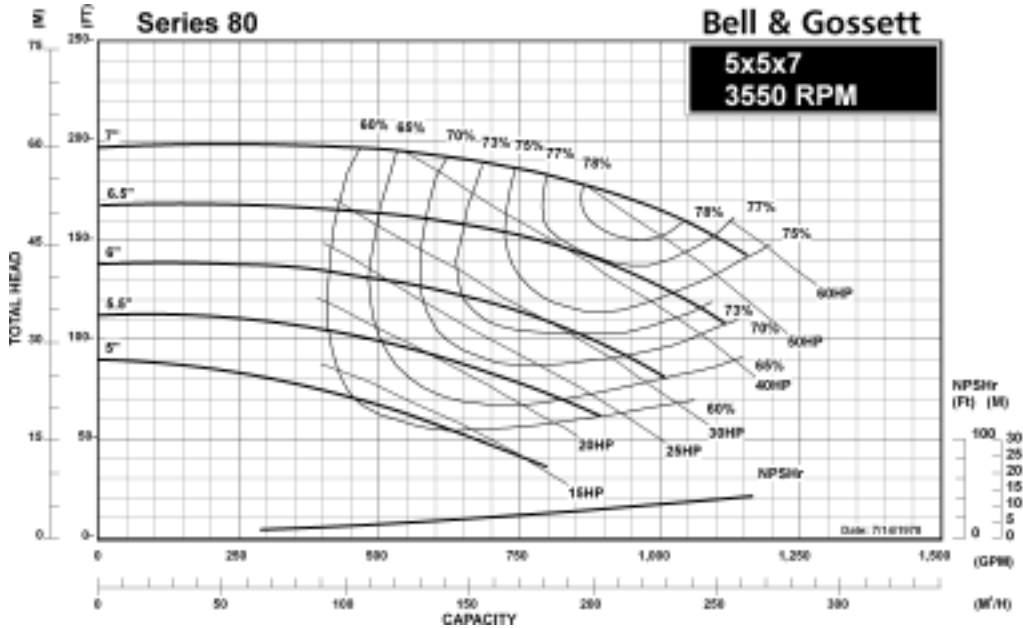
- BRONZE FITTED     ALL IRON

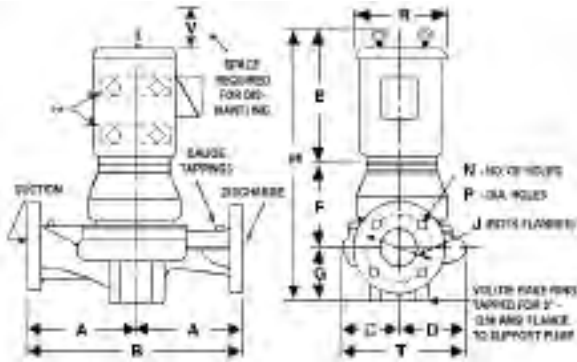
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated Teflon)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	5 "	1-3/8 (35)	10-3/4 (273)
Suction	5 "	1-3/8 (35)	10-3/4 (273)

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
145	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	12-5/8 (321)	5-1/2 (140)	7-1/4 (184)	25-3/8 (645)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	9-3/4 (248)	1-1/2 (38)	13 (330)	4-1/2 (114)
182	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	15-5/16 (389)	5-1/2 (140)	7-1/4 (184)	28-1/16 (713)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	11-3/4 (298)	1 (25)	13 (330)	4-1/2 (114)
184	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	15-5/16 (389)	5-1/2 (140)	7-1/4 (184)	28-1/16 (713)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	11-3/4 (298)	1 (25)	13 (330)	4-1/2 (114)
213	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	19-1/4 (489)	5-1/2 (140)	7-1/4 (184)	32 (813)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	14 (356)	-	13 (330)	4-1/2 (114)
215	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	19-1/4 (489)	5-1/2 (140)	7-1/4 (184)	32 (813)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	14 (356)	-	13 (330)	4-1/2 (114)
254	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	24-1/8 (613)	9-3/8 (238)	7-1/4 (184)	40-3/4 (1035)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	17 (432)	-	13 (330)	4-1/2 (114)
256	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	24-1/8 (613)	9-3/8 (238)	7-1/4 (184)	40-3/4 (1035)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	17 (432)	-	13 (330)	4-1/2 (114)
284	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	23-5/8 (600)	9-3/8 (238)	7-1/4 (184)	40-1/4 (1022)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	16-1/8 (410)	4-5/8 (117)	13 (330)	4-1/2 (114)
286	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	25-1/8 (638)	9-3/8 (238)	7-1/4 (184)	41-3/4 (1060)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	16-1/8 (410)	4-5/8 (117)	13 (330)	4-1/2 (114)
324	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	26 (660)	9-3/8 (238)	7-1/4 (184)	42-5/8 (1083)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	18-3/4 (476)	4-5/8 (117)	13 (330)	4-1/2 (114)
326	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	26 (660)	9-3/8 (238)	7-1/4 (184)	42-5/8 (1083)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	18-3/4 (476)	4-5/8 (117)	13 (330)	4-1/2 (114)

STUFFING BOX 80-PF, 80-S, 80-D

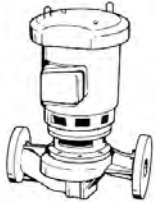
MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
145	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	12-5/8 (321)	8-5/8 (219)	7-1/4 (184)	28-1/2 (724)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	9-3/4 (248)	1-1/2 (38)	13 (330)	4-1/2 (114)
182	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	15-5/16 (389)	8-5/8 (219)	7-1/4 (184)	31-3/16 (792)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	11-3/4 (298)	1 (25)	13 (330)	4-1/2 (114)
184	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	15-5/16 (389)	8-5/8 (219)	7-1/4 (184)	31-3/16 (792)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	11-3/4 (298)	1 (25)	13 (330)	4-1/2 (114)
213	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	19-1/4 (489)	9-3/8 (238)	7-1/4 (184)	35-7/8 (911)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	14 (356)	-	13 (330)	4-1/2 (114)
215	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	19-1/4 (489)	9-3/8 (238)	7-1/4 (184)	35-7/8 (911)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	14 (356)	-	13 (330)	4-1/2 (114)
254	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	24-1/8 (613)	9-3/8 (238)	7-1/4 (184)	40-3/4 (1035)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	17 (432)	-	13 (330)	4-1/2 (114)
256	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	24-1/8 (613)	9-3/8 (238)	7-1/4 (184)	40-3/4 (1035)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	17 (432)	-	13 (330)	4-1/2 (114)
284	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	23-5/8 (600)	9-3/8 (238)	7-1/4 (184)	40-1/4 (1022)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	16-1/8 (410)	4-5/8 (117)	13 (330)	4-1/2 (114)
286	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	25-1/8 (638)	9-3/8 (238)	7-1/4 (184)	41-3/4 (1060)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	16-1/8 (410)	4-5/8 (117)	13 (330)	4-1/2 (114)
324	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	26 (660)	9-3/8 (238)	7-1/4 (184)	42-5/8 (1083)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	18-3/4 (476)	4-5/8 (117)	13 (330)	4-1/2 (114)
326	12 (305)	24 (610)	5-3/4 (146)	7-1/4 (184)	26 (660)	9-3/8 (238)	7-1/4 (184)	42-5/8 (1083)	8-1/2 (216)	8 (22)	7/8 (22)	9-1/4 (235)	8 (22)	7/8 (22)	18-3/4 (476)	4-5/8 (117)	13 (330)	4-1/2 (114)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.  
\*For TEFC Motors add S dimension to dimensions E& H.



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



## 5x5x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup> In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

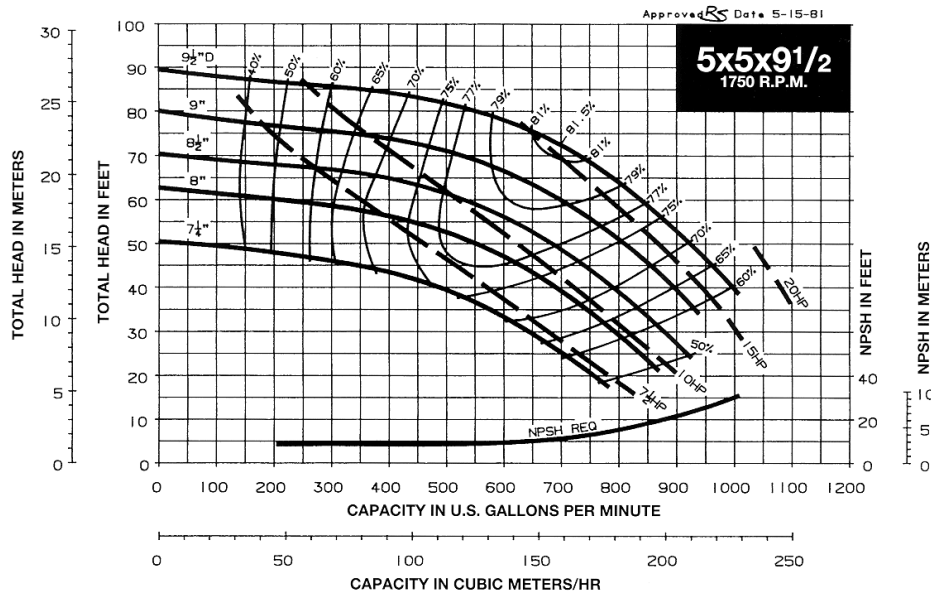
- BRONZE FITTED     ALL IRON

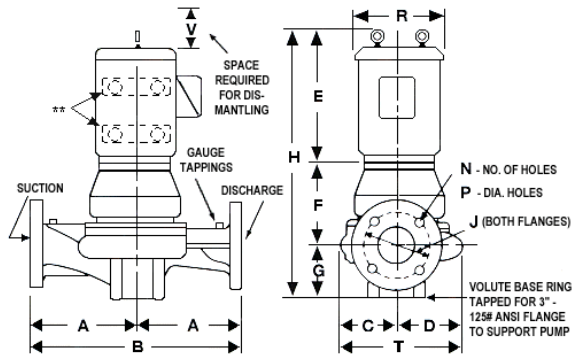
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P.  
with 125# ANSI flange drilling
- 250 psi (17 bar) W.P.  
with 250# ANSI flange drilling (requires 80-S)

**TYPE OF SEAL**

- 80 Standard Seal  
(Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line  
(Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed  
Mechanical Single Seal  
(EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed  
Double Mechanical Seal  
(EPR-Carbon/Ceramic)  
Requires external water source
- 80 -PF Stuffing Box Construction  
w/ Flushed Packing  
(Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	5"	1-3/8 (35)	10-3/4 (273)
Suction	5"	1-3/8 (35)	10-3/4 (273)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
213	14-1/2 (368)	29 (737)	7-3/8 (187)	9 (229)	19-1/4 (489)	5-1/8 (130)	7 (178)	31-3/8 (797)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	14 (356)	-	16-3/8 (416)	5 (127)
215	14-1/2 (368)	29 (737)	7-3/8 (187)	9 (229)	19-1/4 (489)	5-1/8 (130)	7 (178)	31-3/8 (797)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	14 (356)	-	16-3/8 (416)	5 (127)
254	14-1/2 (368)	29 (737)	7-3/8 (187)	9 (229)	24-1/8 (613)	9 (229)	7 (178)	40-1/8 (1019)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	17 (432)	-	16-3/8 (416)	5 (127)
256	14-1/2 (368)	29 (737)	7-3/8 (187)	9 (229)	24-1/8 (613)	9 (229)	7 (178)	40-1/8 (1019)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	17 (432)	-	16-3/8 (416)	5 (127)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
213	14-1/2 (368)	29 (737)	7-3/8 (187)	9 (229)	19-1/4 (489)	9 (229)	7 (178)	35-1/4 (895)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	14 (356)	-	16-3/8 (416)	5 (127)
215	14-1/2 (368)	29 (737)	7-3/8 (187)	9 (229)	19-1/4 (489)	9 (229)	7 (178)	35-1/4 (895)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	14 (356)	-	16-3/8 (416)	5 (127)
254	14-1/2 (368)	29 (737)	7-3/8 (187)	9 (229)	24-1/8 (613)	9 (229)	7 (178)	40-1/8 (1019)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	17 (432)	-	16-3/8 (416)	5 (127)
256	14-1/2 (368)	29 (737)	7-3/8 (187)	9 (229)	24-1/8 (613)	9 (229)	7 (178)	40-1/8 (1019)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	17 (432)	-	16-3/8 (416)	5 (127)

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

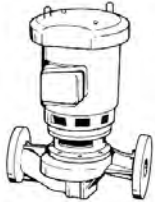
NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



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



## 5x5x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup> In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

\_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

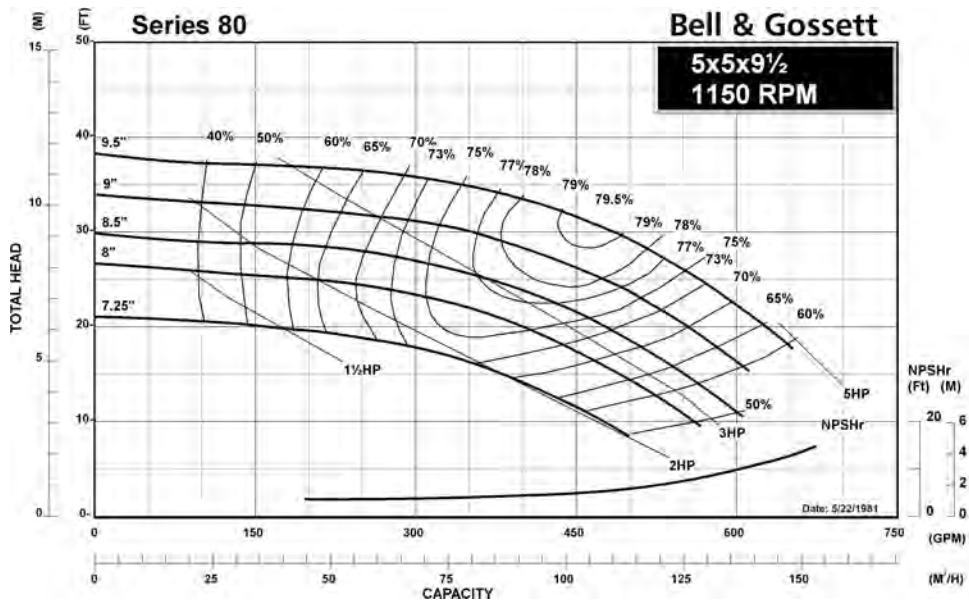
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P.  
with 125# ANSI flange drilling
- 250 psi (17 bar) W.P.  
with 250# ANSI flange drilling (requires 80-S)

**TYPE OF SEAL**

- 80 Standard Seal  
(Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line  
(Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed  
Mechanical Single Seal  
(EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed  
Double Mechanical Seal  
(EPR-Carbon/Ceramic)  
Requires external water source
- 80 -PF Stuffing Box Construction  
w/ Flushed Packing  
(Graphite Impregnated PTFE)

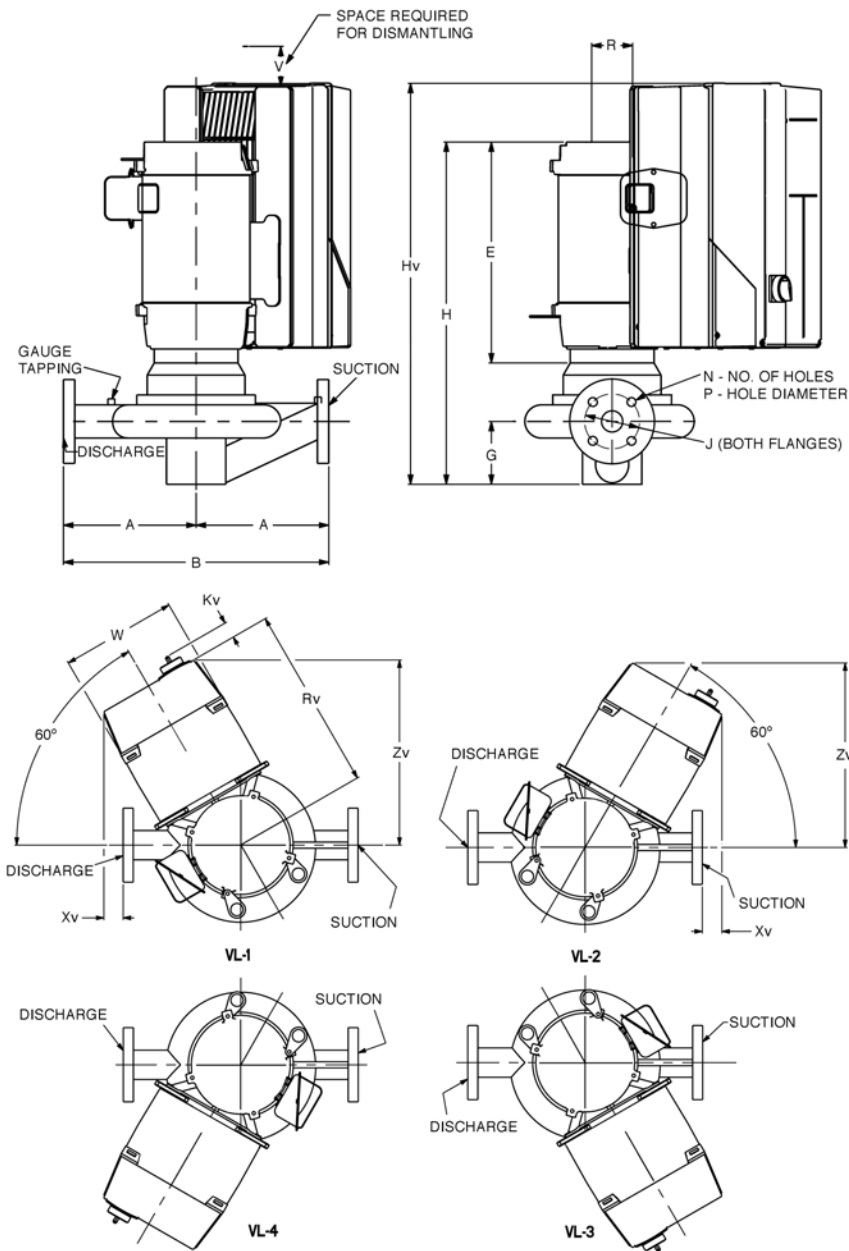




# 5x5x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 5x5x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
213	14-1/2 (368)	29 (737)	19-1/4 (489)	7 (178)	31-3/8 (797)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	33-61/64 (863)	4-1/16 (103)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	35-35/64 (903)	2-7/8 (73)
215	14-1/2 (368)	29 (737)	19-1/4 (489)	7 (178)	31-3/8 (797)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	32-31/64 (825)	4-1/16 (103)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	34-1/64 (864)	2-7/8 (73)
254	14-1/2 (368)	29 (737)	24-1/8 (613)	7 (178)	40-1/8 (1019)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	43-1/8 (1095)	2-3/8 (61)
256	14-1/2 (368)	29 (737)	24-1/8 (613)	7 (178)	40-1/8 (1019)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	42-1/2 (1079)	2-3/8 (61)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	46-61/64 (1193)	2-3/8 (61)

## STUFFING BOX 80-PF, 80-S, 80-D

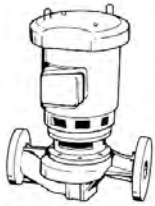
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
213	14-1/2 (368)	29 (737)	19-1/4 (489)	7 (178)	35-1/4 (895)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	37-53/64 (961)	4-1/16 (103)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	39-27/64 (1001)	2-7/8 (73)
215	14-1/2 (368)	29 (737)	19-1/4 (489)	7 (178)	35-1/4 (895)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	36-23/64 (924)	4-1/16 (103)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	37-57/64 (963)	2-7/8 (73)
254	14-1/2 (368)	29 (737)	24-1/8 (613)	7 (178)	40-1/8 (1019)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	43-1/8 (1095)	2-3/8 (61)
256	14-1/2 (368)	29 (737)	24-1/8 (613)	7 (178)	40-1/8 (1019)	8-1/2 (216)	8 (203)	7/8 (22)	9-1/4 (235)	8 (203)	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	42-1/2 (1079)	2-3/8 (61)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	46-61/64 (1193)	2-3/8 (61)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.

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



# 6x6x7

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

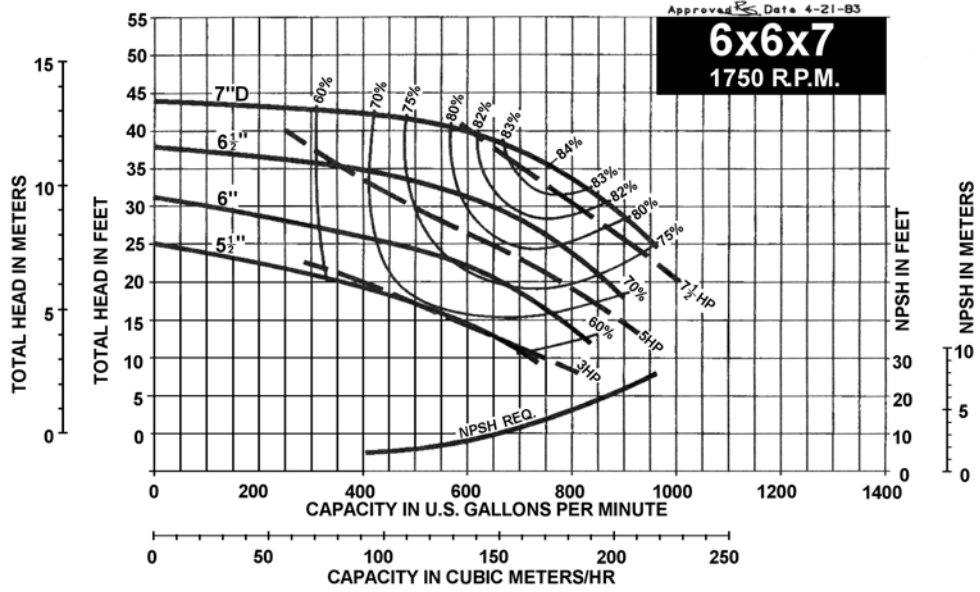
BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

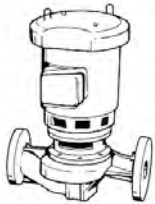
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 6x6x7

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

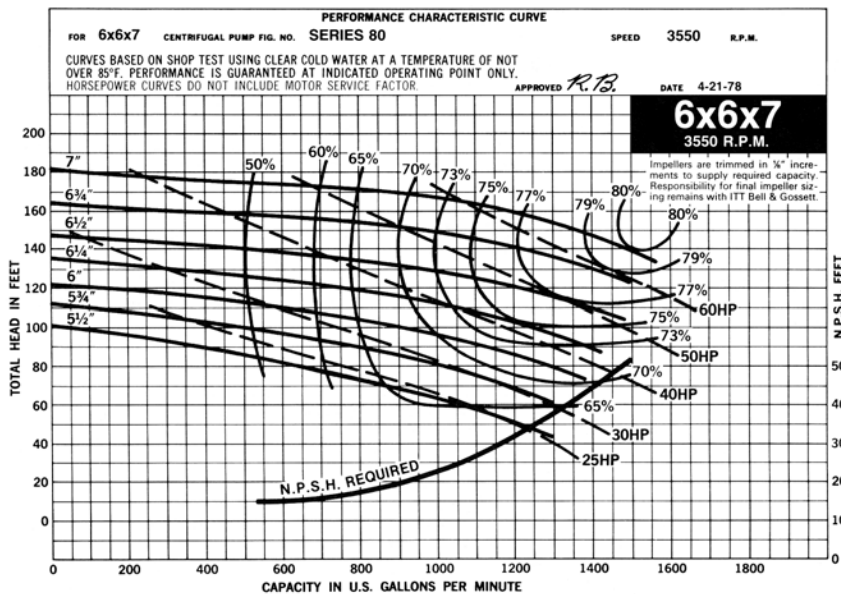
- BRONZE FITTED     ALL IRON

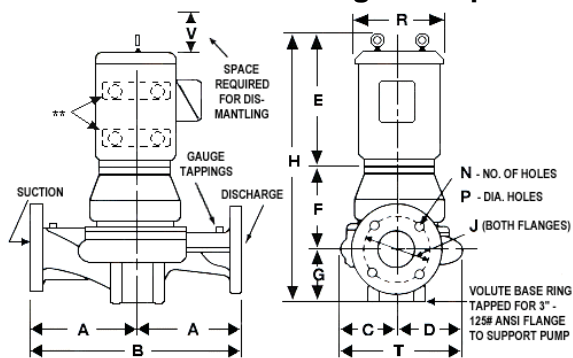
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	6"	1-7/16 (37)	12-1/8 (308)
Suction	6"	1-7/16 (37)	12-1/8 (308)

\*\* Motor may be supplied with feet

DIMENSIONS – Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
182	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	15-5/16 (389)	6-1/16 (154)	8-1/8 (206)	29-1/2 (749)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	11-3/4 (298)	1 (25)	15 (381)	5-1/4 (133)
184	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	15-5/16 (389)	6-1/16 (154)	8-1/8 (206)	29-1/2 (749)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	11-3/4 (298)	1 (25)	15 (381)	5-1/4 (133)
213	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	19-1/4 (489)	6-1/16 (154)	8-1/8 (206)	33-7/16 (849)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	-	15 (381)	5-1/4 (133)
215	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	19-1/4 (489)	6-1/16 (154)	8-1/4 (210)	33-7/16 (849)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	-	15 (381)	5-1/4 (133)
254	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	24-1/8 (613)	9-15/16 (252)	8-1/8 (206)	42-3/16 (1072)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	-	15 (381)	5-1/4 (133)
256	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	24-1/8 (613)	9-15/16 (252)	8-1/8 (206)	42-3/16 (1072)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	-	15 (381)	5-1/4 (133)
284	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	23-5/8 (600)	9-15/16 (252)	8-1/8 (206)	41-11/16 (1059)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	15 (381)	5-1/4 (133)
286	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	25-1/8 (638)	9-15/16 (252)	8-1/8 (206)	43-3/16 (1097)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	15 (381)	5-1/4 (133)
324	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	26 (660)	9-15/16 (252)	8-1/8 (206)	44-1/16 (1119)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	18-3/4 (476)	4-5/8 (117)	15 (381)	5-1/4 (133)
326	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	26 (660)	9-15/16 (252)	8-1/8 (206)	44-1/16 (1119)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	18-3/4 (476)	4-5/8 (117)	15 (381)	5-1/4 (133)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
182	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	15-5/16 (389)	9-1/4 (235)	8-1/8 (206)	32-11/16 (830)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	11-3/4 (298)	1 (25)	15 (381)	5-1/4 (133)
184	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	15-5/16 (389)	9-1/4 (235)	8-1/8 (206)	32-11/16 (830)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	11-3/4 (298)	1 (25)	15 (381)	5-1/4 (133)
213	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	19-1/4 (489)	9-15/16 (252)	8-1/8 (206)	37-5/16 (948)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	-	15 (381)	5-1/4 (133)
215	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	19-1/4 (489)	9-15/16 (252)	8-1/8 (206)	37-5/16 (948)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	-	15 (381)	5-1/4 (133)
254	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	24-1/8 (613)	9-15/16 (252)	8-1/8 (206)	42-3/16 (1072)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	-	15 (381)	5-1/4 (133)
256	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	24-1/8 (613)	9-15/16 (252)	8-1/8 (206)	42-3/16 (1072)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	-	15 (381)	5-1/4 (133)
284	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	23-5/8 (600)	9-15/16 (252)	8-1/8 (206)	41-11/16 (1059)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	15 (381)	5-1/4 (133)
286	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	25-1/8 (638)	9-15/16 (252)	8-1/8 (206)	43-3/16 (1097)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	15 (381)	5-1/4 (133)
324	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	26 (660)	9-15/16 (252)	8-1/8 (206)	44-1/16 (1119)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	18-3/4 (476)	4-5/8 (117)	15 (381)	5-1/4 (133)
326	14 (356)	28 (711)	6-1/2 (165)	8-1/2 (216)	26 (660)	9-15/16 (252)	8-1/8 (206)	44-1/16 (1119)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	18-3/4 (476)	4-5/8 (117)	15 (381)	5-1/4 (133)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E & H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



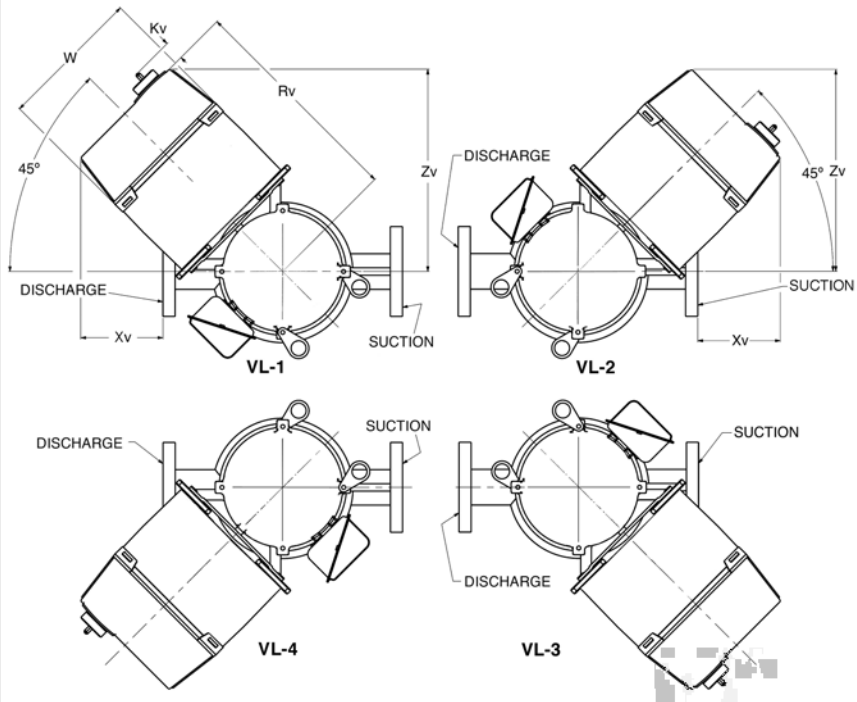
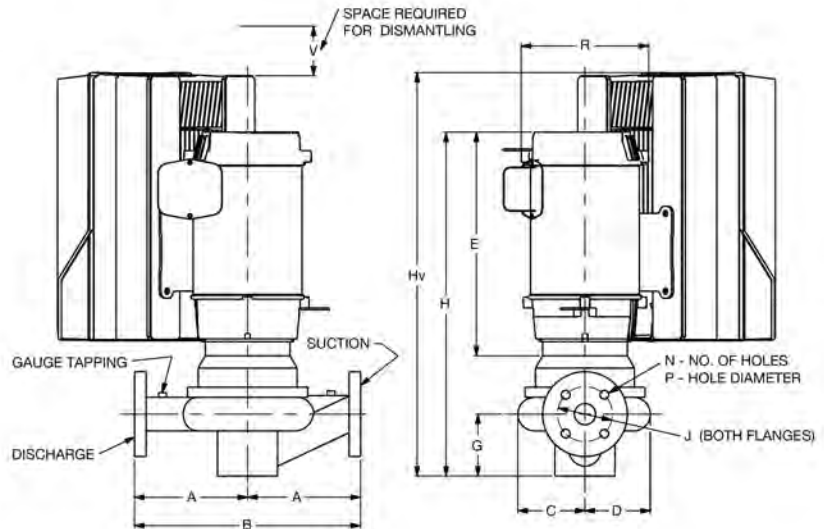




# 6x6x7 Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 6x6x7 Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

**DIMENSIONS – Inches (mm)**

**STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
182	14 (356)	28 (711)	15-5/16 (389)	8-1/8 (206)	29-1/2 (749)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	32-21/32 (829)	1-31/32 (50)
184	14 (356)	28 (711)	15-5/16 (389)	8-1/8 (206)	29-1/2 (749)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	32-21/32 (829)	1-31/32 (50)
213	14 (356)	28 (711)	19-1/4 (489)	8-1/8 (206)	33-7/16 (849)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	36-1/64 (915)	1-7/16 (37)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	37-39/64 (955)	7/32 (5)
215	14 (356)	28 (711)	19-1/4 (489)	8-2/8 (210)	33-7/16 (849)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	34-35/64 (878)	1-7/16 (37)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	36-5/64 (917)	7/32 (5)
254	14 (356)	28 (711)	24-1/8 (613)	8-1/8 (206)	42-3/16 (1072)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	49-41/64 (1261)	59/64 (23)
256	14 (356)	28 (711)	24-1/8 (613)	8-1/8 (206)	42-3/16 (1072)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	49-1/64 (1245)	59/64 (23)
284	14 (356)	28 (711)	23-5/8 (600)	8-1/8 (206)	41-11/16 (1059)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	48-25/64 (1229)	1-29/64 (37)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	50-51/64 (1290)	3-5/8 (92)
286	14 (356)	28 (711)	25-1/8 (638)	8-1/8 (206)	43-3/16 (1097)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	49-57/64 (1267)	1-29/64 (37)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	52-19/64 (1328)	3-5/8 (92)
324	14 (356)	28 (711)	26 (660)	8-1/8 (206)	44-1/16 (1119)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	16-5/32 (410)	9-1/2 (241)	49-15/64 (1251)	2-5/32 (55)
													C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	49-37/64 (1259)	4-21/64 (110)
													C2	21-37/64 (548)	19-7/8 (505)	14-19/32 (371)	54-9/64 (1375)	5-7/8 (149)
326	14 (356)	28 (711)	26 (660)	8-1/8 (206)	44-1/16 (1119)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	18-3/4 (476)	C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	49-37/64 (1259)	4-21/64 (110)
													C2	21-37/64 (548)	19-7/8 (505)	14-19/32 (371)	54-9/64 (1375)	5-7/8 (149)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 6X6X7 Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

## STUFFING BOX 80-PF, 80-S, 80-D

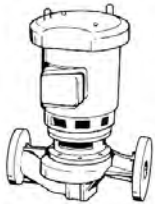
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
182	14 (356)	28 (711)	15-5/16 (389)	8-1/8 (206)	32-11/16 (830)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	35-27/32 (910)	1-31/32 (50)
184	14 (356)	28 (711)	15-5/16 (389)	8-1/8 (206)	32-11/16 (830)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	11-3/4 (298)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	35-27/32 (910)	1-31/32 (50)
213	14 (356)	28 (711)	19-1/4 (489)	8-1/8 (206)	37-5/16 (948)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	39-57/64 (1013)	1-7/16 (37)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	41-31/64 (1054)	7/32 (5)
215	14 (356)	28 (711)	19-1/4 (489)	8-1/8 (206)	37-5/16 (948)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	38-27/64 (976)	1-7/16 (37)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	39-61/64 (1015)	7/32 (5)
254	14 (356)	28 (711)	24-1/8 (613)	8-1/8 (206)	42-3/16 (1072)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	49-41/64 (1261)	59/64 (23)
256	14 (356)	28 (711)	24-1/8 (613)	8-1/8 (206)	42-3/16 (1072)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	49-1/64 (1245)	59/64 (23)
284	14 (356)	28 (711)	23-5/8 (600)	8-1/8 (206)	41-11/16 (1059)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	48-25/64 (1229)	1-29/64 (37)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	50-51/64 (1290)	3-5/8 (92)
286	14 (356)	28 (711)	25-1/8 (638)	8-1/8 (206)	43-3/16 (1097)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	49-57/64 (1267)	1-29/64 (37)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	52-19/64 (1328)	3-5/8 (92)
324	14 (356)	28 (711)	26 (660)	8-1/8 (206)	44-1/16 (1119)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	16-5/32 (410)	9-1/2 (241)	49-15/64 (1251)	2-5/32 (55)
													C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	49-37/64 (1259)	4-21/64 (110)
													C2	21-37/64 (548)	19-7/8 (505)	14-19/32 (371)	54-9/64 (1375)	5-7/8 (149)
326	14 (356)	28 (711)	26 (660)	8-1/8 (206)	44-1/16 (1119)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	18-3/4 (476)	C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	49-37/64 (1259)	4-21/64 (110)
													C2	21-37/64 (548)	19-7/8 (505)	14-19/32 (371)	54-9/64 (1375)	5-7/8 (149)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.

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



# 6x6x9<sup>1</sup>/<sub>2</sub>

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

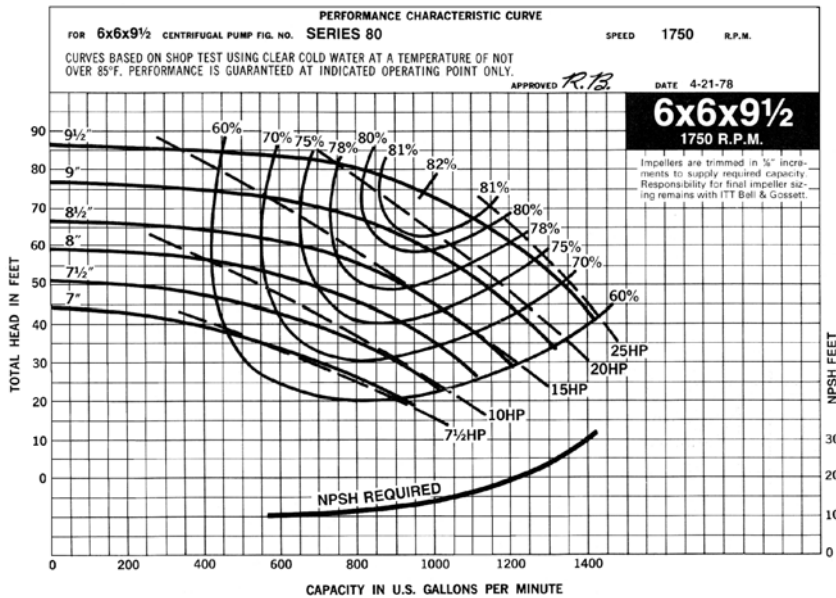
- BRONZE FITTED
- ALL IRON

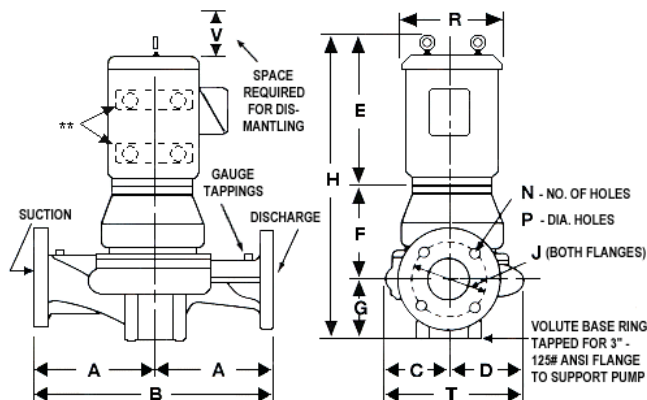
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	6"	1-7/16 (37)	12-1/8 (308)
Suction	6"	1-7/16 (37)	12-1/8 (308)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
213	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	19-1/4 (489)	5-3/8 (137)	8-3/4 (222)	33-3/8 (848)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	-	18-1/4 (464)	5 (127)
215	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	19-1/4 (489)	5-3/8 (137)	8-3/4 (222)	33-3/8 (848)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	-	18-1/4 (464)	5 (127)
254	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	24-1/8 (613)	9-1/4 (235)	8-3/4 (222)	42-1/8 (1070)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	-	18-1/4 (464)	5 (127)
256	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	24-1/8 (613)	9-1/4 (235)	8-3/4 (222)	42-1/8 (1070)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	-	18-1/4 (464)	5 (127)
284	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	23-5/8 (600)	9-1/4 (235)	8-3/4 (222)	41-5/8 (1057)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	18-1/4 (464)	5 (127)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
213	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	19-1/4 (489)	9-1/4 (235)	8-3/4 (222)	37-1/4 (946)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	-	18-1/4 (464)	5 (127)
215	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	19-1/4 (489)	9-1/4 (235)	8-3/4 (222)	37-1/4 (946)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	-	18-1/4 (464)	5 (127)
254	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	24-1/8 (613)	9-1/4 (235)	8-3/4 (222)	42-1/8 (1070)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	-	18-1/4 (464)	5 (127)
256	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	24-1/8 (613)	9-1/4 (235)	8-3/4 (222)	42-1/8 (1070)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	-	18-1/4 (464)	5 (127)
284	16-3/4 (425)	33-1/2 (851)	8-1/4 (210)	10 (254)	23-5/8 (600)	9-1/4 (235)	8-3/4 (222)	41-5/8 (1057)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	18-1/4 (464)	5 (127)

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

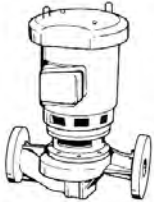
NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



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



# 6x6x9<sup>1</sup>/<sub>2</sub>

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

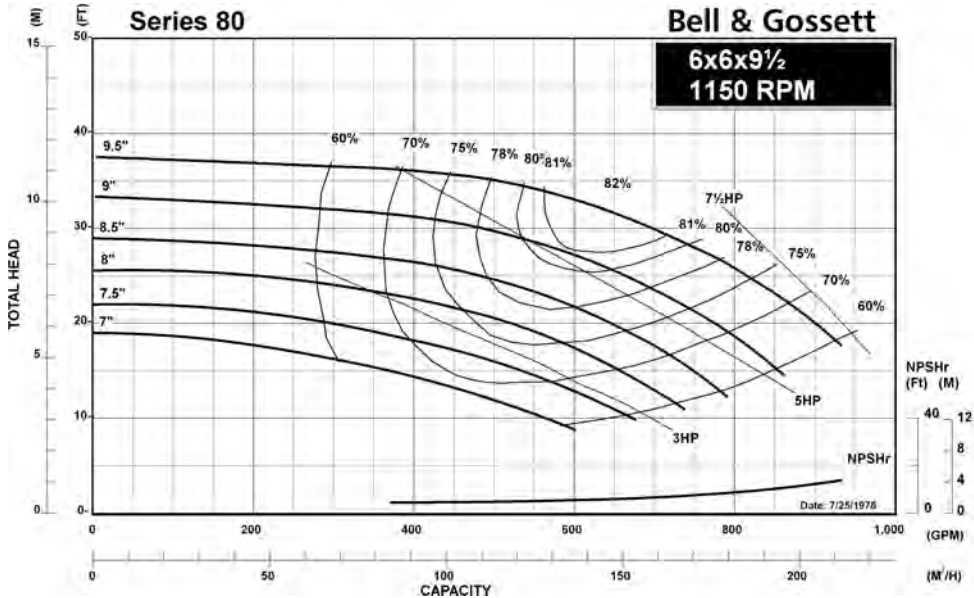
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)

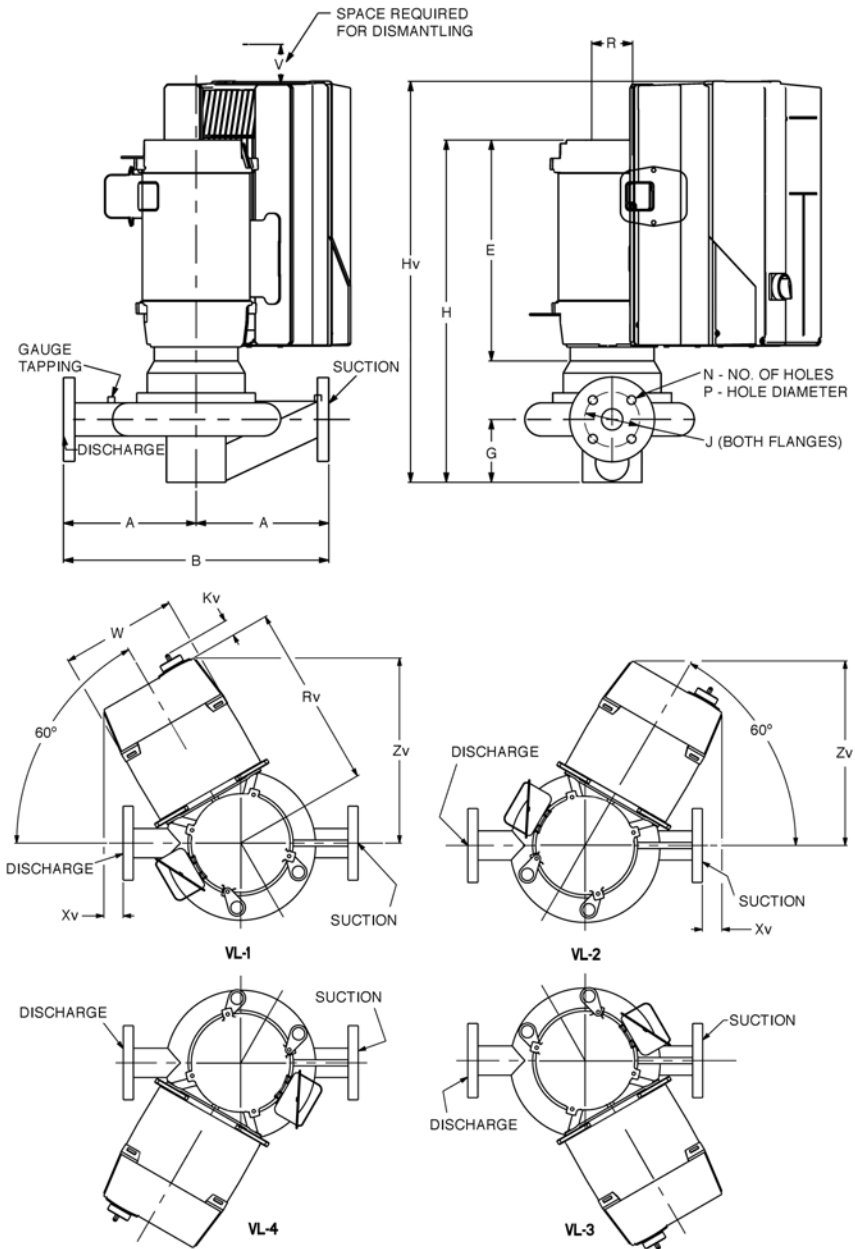




# 6x6x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.





# 6x6x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
213	16-3/4 (425)	33-1/2 (851)	19-1/4 (489)	8-3/4 (222)	33-3/8 (848)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	35-61/64 (913)	6-5/16 (160)
215	16-3/4 (425)	33-1/2 (851)	19-1/4 (489)	8-3/4 (222)	33-3/8 (848)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	34-31/64 (876)	6-5/16 (160)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	36-1/64 (915)	5-1/8 (130)
254	16-3/4 (425)	33-1/2 (851)	24-1/8 (613)	8-3/4 (222)	42-1/8 (1070)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	A5	14-17/32 (369)	14-45/64 (373)	9-1/2 (241)	42-1/8 (1070)	5-13/16 (148)
													B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	45-1/8 (1146)	4-5/8 (118)
256	16-3/4 (425)	33-1/2 (851)	24-1/8 (613)	8-3/4 (222)	42-1/8 (1070)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	44-1/2 (1130)	4-5/8 (118)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	48-61/64 (1243)	4-5/8 (118)
284	16-3/4 (425)	33-1/2 (851)	23-5/8 (600)	8-3/4 (222)	41-5/8 (1057)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	43-7/8 (1114)	4-1/4 (108)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	50-47/64 (1289)	2-11/32 (59)

## STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
213	16-3/4 (425)	33-1/2 (851)	19-1/4 (489)	8-3/4 (222)	37-1/4 (946)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	39-53/64 (1012)	6-5/16 (160)
215	16-3/4 (425)	33-1/2 (851)	19-1/4 (489)	8-3/4 (222)	37-1/4 (946)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	14 (356)	A5	13-17/32 (344)	13-53/64 (351)	9-1/2 (241)	38-23/64 (974)	6-5/16 (160)
													B1	15-53/64 (402)	15-27/32 (402)	9-1/2 (241)	39-57/64 (1013)	5-1/8 (130)
254	16-3/4 (425)	33-1/2 (851)	24-1/8 (613)	8-3/4 (222)	42-1/8 (1070)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	A5	14-17/32 (369)	14-45/64 (373)	9-1/2 (241)	42-1/8 (1070)	5-13/16 (148)
													B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	45-1/8 (1146)	4-5/8 (118)
256	16-3/4 (425)	33-1/2 (851)	24-1/8 (613)	8-3/4 (222)	42-1/8 (1070)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	17 (432)	B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	44-1/2 (1130)	4-5/8 (118)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	48-61/64 (1243)	4-5/8 (118)
284	16-3/4 (425)	33-1/2 (851)	23-5/8 (600)	8-3/4 (222)	41-5/8 (1057)	9-1/2 (241)	8	7/8 (22)	10-5/8 (270)	12	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	43-7/8 (1114)	4-1/4 (108)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	50-47/64 (1289)	2-11/32 (59)

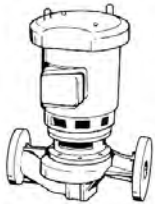
Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



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



# 6x6x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

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

250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)

300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

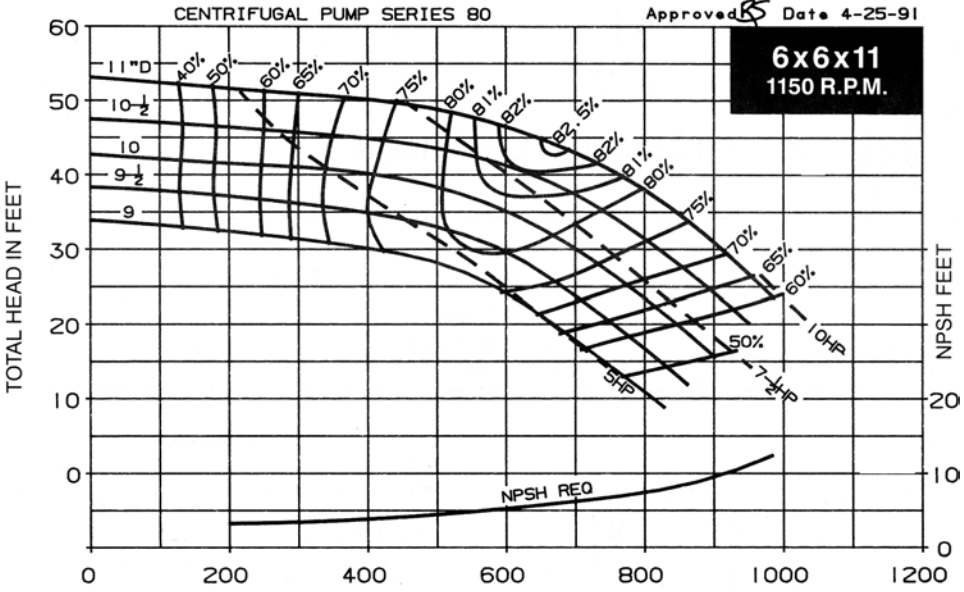
80 Standard Seal (Buna-Carbon/Ceramic)

80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)

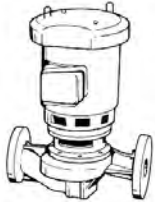
80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)

80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source

80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 6x6x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

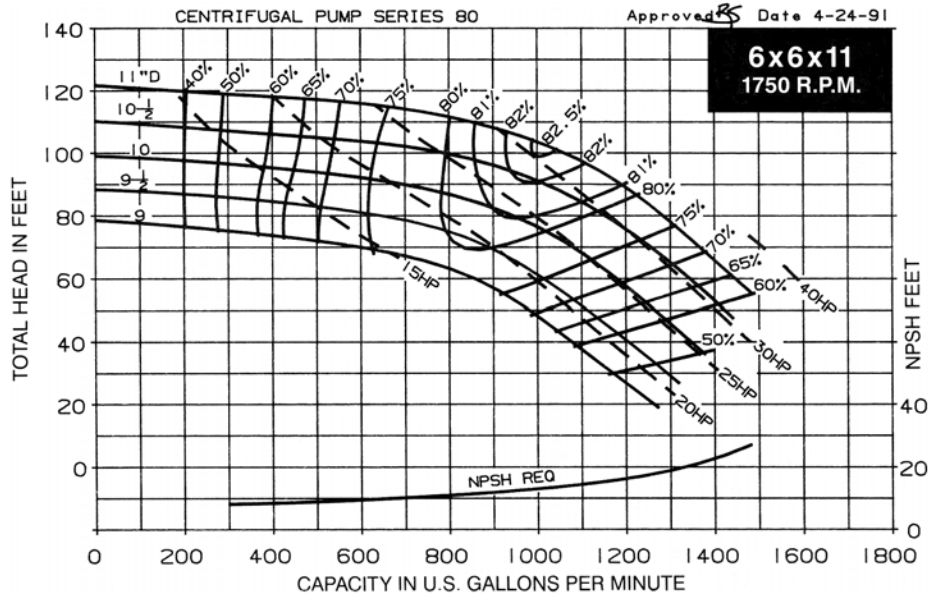
- BRONZE FITTED     ALL IRON

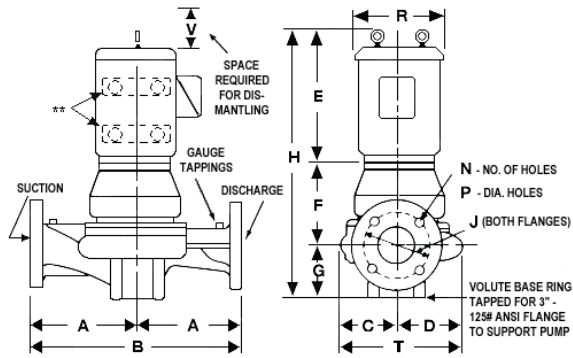
**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	6"	1-7/16 (37)	12-1/8 (308)
Suction	6"	1-7/16 (37)	12-1/8 (308)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
213	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	19-1/4 (489)	-	8-3/4 (222)	-	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	14 (356)	-	18-1/8 (460)	5-15/16 (151)
215	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	19-1/4 (489)	-	8-3/4 (222)	-	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	14 (356)	-	18-1/8 (460)	5-15/16 (151)
254	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	24-1/8 (613)	7-13/16 (198)	8-3/4 (222)	40-11/16 (1033)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	17 (432)	-	18-1/8 (460)	5-15/16 (151)
256	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	24-1/8 (613)	7-13/16 (198)	8-3/4 (222)	40-11/16 (1033)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	17 (432)	-	18-1/8 (460)	5-15/16 (151)
284	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	23-5/8 (600)	7-13/16 (198)	8-3/4 (222)	40-3/16 (1021)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	16-1/8 (410)	4-5/8 (117)	18-1/8 (460)	5-15/16 (151)
286	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	25-1/8 (638)	7-13/16 (198)	8-3/4 (222)	41-11/16 (1059)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	16-1/8 (410)	4-5/8 (117)	18-1/8 (460)	5-15/16 (151)
324	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	26 (660)	7-13/16 (198)	8-3/4 (222)	42-9/16 (1081)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	18-3/4 (476)	4-5/8 (117)	18-1/8 (460)	5-15/16 (151)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
213	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	19-1/4 (489)	7-9/16 (192)	8-3/4 (222)	35-9/16 (903)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	14 (356)	-	18-1/8 (460)	5-15/16 (151)
215	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	19-1/4 (489)	7-9/16 (192)	8-3/4 (222)	35-9/16 (903)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	14 (356)	-	18-1/8 (460)	5-15/16 (151)
254	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	24-1/8 (613)	7-13/16 (198)	8-3/4 (222)	40-11/16 (1033)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	17 (432)	-	18-1/8 (460)	5-15/16 (151)
256	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	21-1/8 (537)	7-13/16 (198)	8-3/4 (222)	40-11/16 (1033)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	17 (432)	-	18-1/8 (460)	5-15/16 (151)
284	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	23-5/8 (600)	7-13/16 (198)	8-3/4 (222)	40-3/16 (1021)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	16-1/8 (410)	4-5/8 (117)	18-1/8 (460)	5-15/16 (151)
286	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	25-1/8 (638)	7-13/16 (198)	8-3/4 (222)	41-11/16 (1059)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	16-1/8 (410)	4-5/8 (117)	18-1/8 (460)	5-15/16 (151)
324	16 (406)	32 (813)	8-3/8 (213)	9-3/4 (248)	26 (660)	7-13/16 (198)	8-3/4 (222)	42-9/16 (1081)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	18-3/4 (476)	4-5/8 (117)	18-1/8 (460)	5-15/16 (151)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E& H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

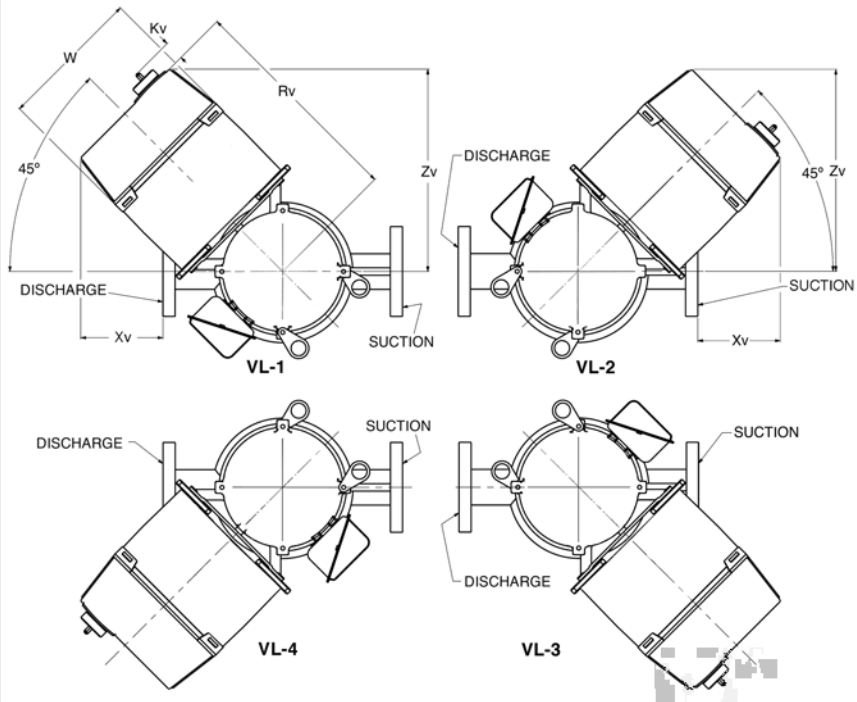
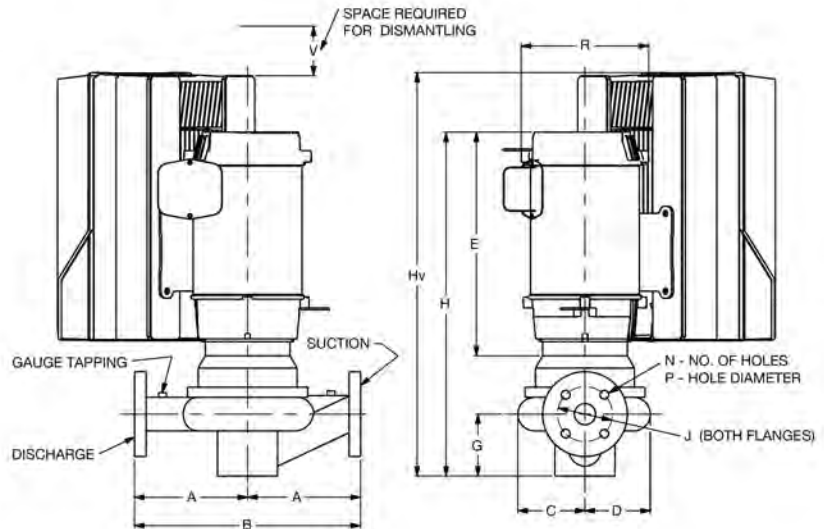




# 6x6x11 Series 80<sup>®</sup>

**In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control**

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 6x6x11 Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
213	16 (406)	32 (813)	19-1/4 (489)	8-3/4 (222)	-	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	2-37/64 (66)	3-7/16 (87)
215	16 (406)	32 (813)	19-1/4 (489)	8-3/4 (222)	-	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	1-7/64 (28)	3-7/16 (87)
254	16 (406)	32 (813)	24-1/8 (613)	8-3/4 (222)	40-11/16 (1033)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	40-11/16 (1033)	2-47/64 (69)
													B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	43-11/16 (1109)	1-5/64 (27)
256	16 (406)	32 (813)	24-1/8 (613)	8-3/4 (222)	40-11/16 (1033)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	40-11/16 (1033)	2-47/64 (69)
													B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	43-1/16 (1094)	1-5/64 (27)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	47-33/64 (1207)	1-5/64 (27)
284	16 (406)	32 (813)	23-5/8 (600)	8-3/4 (222)	40-3/16 (1021)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	42-7/16 (1078)	35/64 (14)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	49-19/64 (1252)	1-5/8 (41)
286	16 (406)	32 (813)	25-1/8 (638)	8-3/4 (222)	41-11/16 (1059)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	48-25/64 (1229)	35/64 (14)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	50-51/64 (1290)	1-5/8 (41)
324	16 (406)	32 (813)	26 (660)	8-3/4 (222)	42-9/16 (1081)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	16-5/32 (410)	9-1/2 (241)	47-47/64 (1213)	5/32 (4)
													C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	48-5/64 (1221)	2-21/64 (59)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 6X6X11 Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## STUFFING BOX 80-PF, 80-S, 80-D

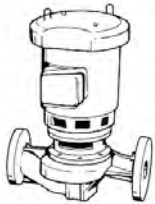
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
213	16 (406)	32 (813)	19-1/4 (489)	8-3/4 (222)	35-9/16 (903)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	38-9/64 (969)	3-7/16 (87)
215	16 (406)	32 (813)	19-1/4 (489)	8-3/4 (222)	35-9/16 (903)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	14 (356)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	36-43/64 (932)	3-7/16 (87)
254	16 (406)	32 (813)	24-1/8 (613)	8-3/4 (222)	40-11/16 (1033)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	40-11/16 (1033)	2-47/64 (69)
													B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	43-11/16 (1109)	1-5/64 (27)
256	16 (406)	32 (813)	21-1/8 (537)	8-3/4 (222)	40-11/16 (1033)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	40-11/16 (1033)	2-47/64 (69)
													B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	43-1/16 (1094)	1-5/64 (27)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	47-33/64 (1207)	1-5/64 (27)
284	16 (406)	32 (813)	23-5/8 (600)	8-3/4 (222)	40-3/16 (1021)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	42-7/16 (1078)	35/64 (14)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	49-19/64 (1252)	1-5/8 (41)
286	16 (406)	32 (813)	25-1/8 (638)	8-3/4 (222)	41-11/16 (1059)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	16-1/8 (410)	B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	48-25/64 (1229)	35/64 (14)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	50-51/64 (1290)	1-5/8 (41)
324	16 (406)	32 (813)	26 (660)	8-3/4 (222)	42-9/16 (1081)	9-1/2 (241)	8 (203)	7/8 (22)	10-5/8 (270)	12 (305)	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	16-5/32 (410)	9-1/2 (241)	47-47/64 (1213)	5/32 (4)
													C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	48-5/64 (1221)	2-21/64 (59)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.

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



# 8x8x9<sup>1</sup>/<sub>2</sub>

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

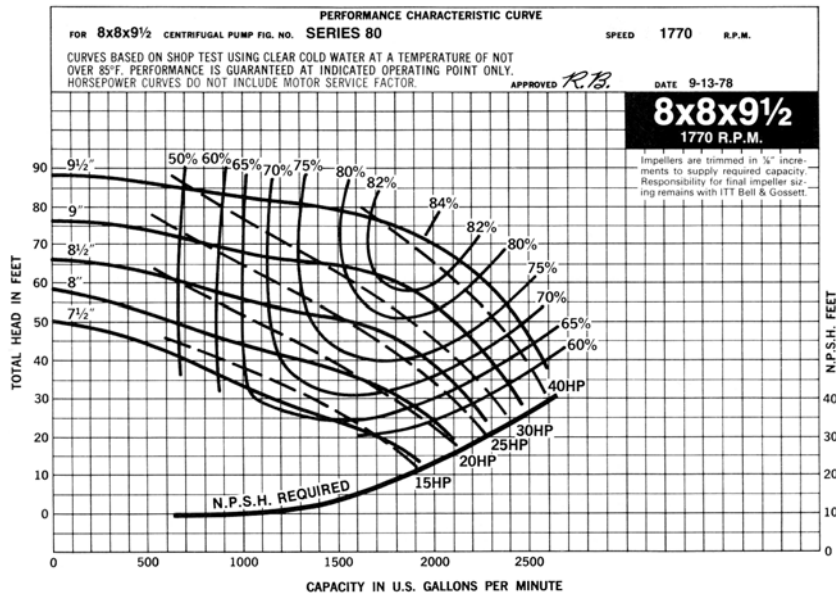
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

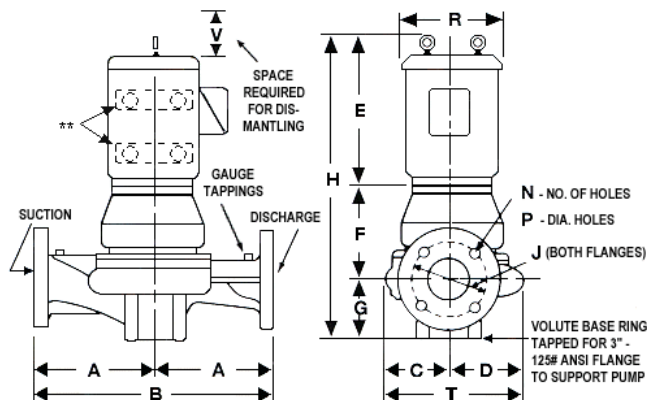
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)







FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	8"	1-5/8 (41)	14-3/4 (375)
Suction	8"	1-5/8 (41)	14-3/4 (375)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
254	18 (457)	36 (914)	8-1/2 (216)	11 (279)	24-1/8 (613)	10-1/4 (260)	10-1/4 (260)	44-5/8 (1133)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	17 (432)	-	19-1/2 (495)	6-1/4 (159)
256	18 (457)	36 (914)	8-1/2 (216)	11 (279)	24-1/8 (613)	10-1/4 (260)	10-1/4 (260)	44-5/8 (1133)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	17 (432)	-	19-1/2 (495)	6-1/4 (159)
284	18 (457)	36 (914)	8-1/2 (216)	11 (279)	23-5/8 (600)	10-1/4 (260)	10-1/4 (260)	44-1/8 (1121)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	16-1/8 (410)	4-5/8 (117)	19-1/2 (495)	6-1/4 (159)
286	18 (457)	36 (914)	8-1/2 (216)	11 (279)	25-1/8 (638)	10-1/4 (260)	10-1/4 (260)	45-5/8 (1159)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	16-1/8 (410)	4-5/8 (117)	19-1/2 (495)	6-1/4 (159)
324	18 (457)	36 (914)	8-1/2 (216)	11 (279)	26 (660)	10-1/4 (260)	10-1/4 (260)	46-1/2 (1181)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	18-3/4 (476)	4-5/8 (117)	19-1/2 (495)	6-1/4 (159)
326	18 (457)	36 (914)	8-1/2 (216)	11 (279)	26 (660)	10-1/4 (260)	10-1/4 (260)	46-1/2 (1181)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	18-3/4 (476)	4-5/8 (117)	19-1/2 (495)	6-1/4 (159)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
254	18 (457)	36 (914)	8-1/2 (216)	11 (279)	24-1/8 (613)	10-1/4 (260)	10-1/4 (260)	44-5/8 (1133)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	17 (432)	-	19-1/2 (495)	6-1/4 (159)
256	18 (457)	36 (914)	8-1/2 (216)	11 (279)	24-1/8 (613)	10-1/4 (260)	10-1/4 (260)	44-5/8 (1133)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	17 (432)	-	19-1/2 (495)	6-1/4 (159)
284	18 (457)	36 (914)	8-1/2 (216)	11 (279)	23-5/8 (600)	10-1/4 (260)	10-1/4 (260)	44-1/8 (1121)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	16-1/8 (410)	4-5/8 (117)	19-1/2 (495)	6-1/4 (159)
286	18 (457)	36 (914)	8-1/2 (216)	11 (279)	25-1/8 (638)	10-1/4 (260)	10-1/4 (260)	45-5/8 (1159)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	16-1/8 (410)	4-5/8 (117)	19-1/2 (495)	6-1/4 (159)
324	18 (457)	36 (914)	8-1/2 (216)	11 (279)	26 (660)	10-1/4 (260)	10-1/4 (260)	46-1/2 (1181)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	18-3/4 (476)	4-5/8 (117)	19-1/2 (495)	6-1/4 (159)
326	18 (457)	36 (914)	8-1/2 (216)	11 (279)	26 (660)	10-1/4 (260)	10-1/4 (260)	46-1/2 (1181)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	18-3/4 (476)	4-5/8 (117)	19-1/2 (495)	6-1/4 (159)

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

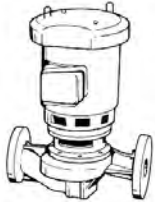
NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E & H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



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



## 8x8x9<sup>1</sup>/<sub>2</sub>

# Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

\_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

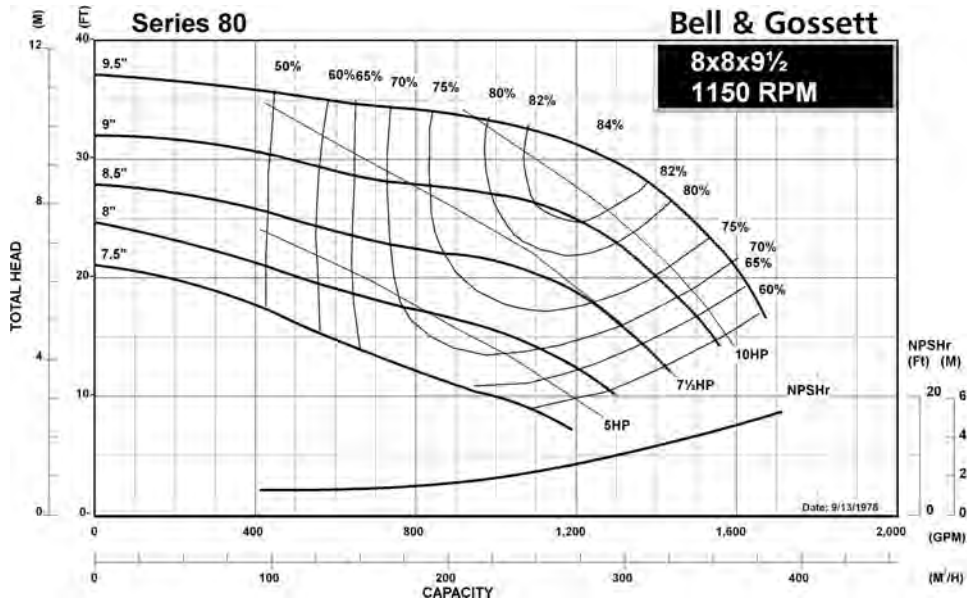
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)

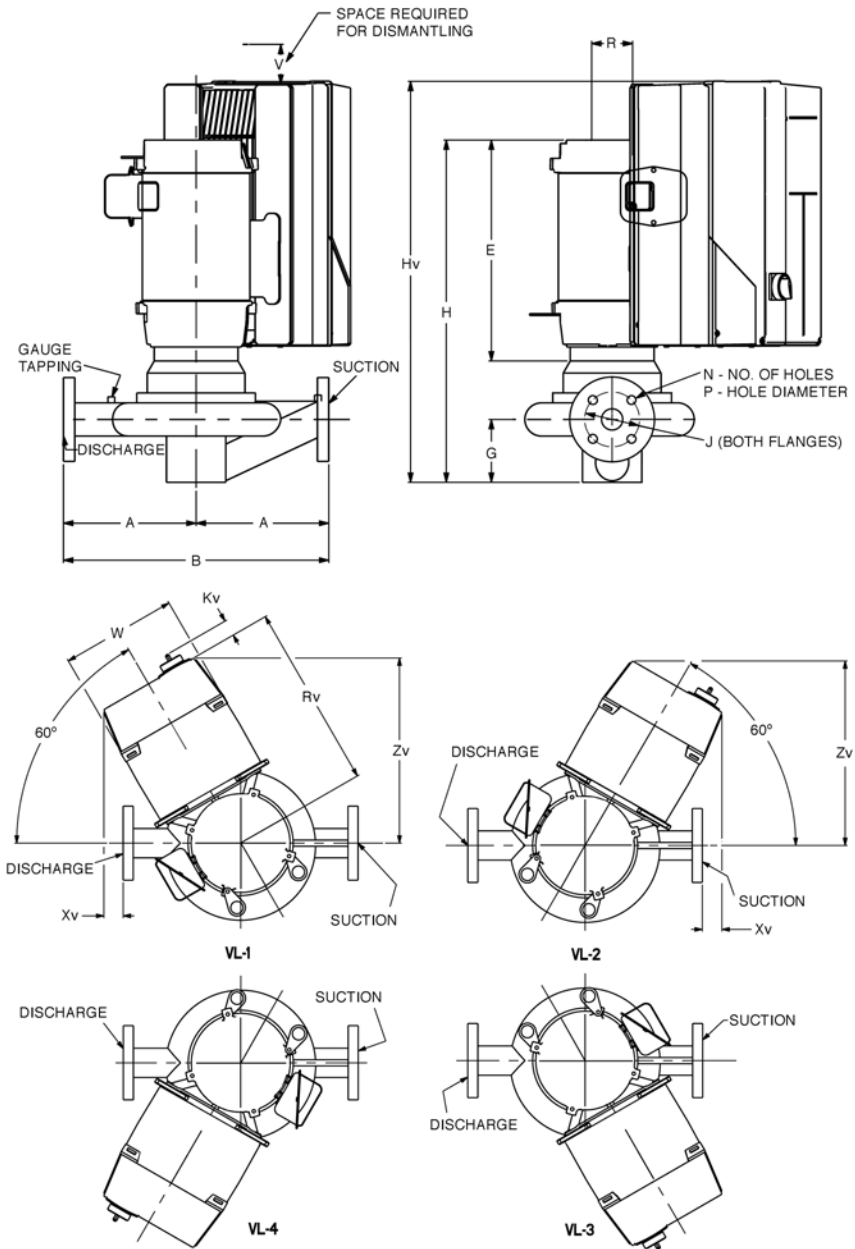




# 8x8x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 8x8x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## DIMENSIONS – Inches (mm)

## STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
254	18 (457)	36 (914)	24-1/8 (613)	10-1/4 (260)	44-5/8 (1133)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	17 (432)	A5	14-17/32 (369)	14-45/64 (373)	9-1/2 (241)	44-5/8 (1133)	7-1/16 (179)
													B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	47-5/8 (1209)	5-7/8 (149)
256	18 (457)	36 (914)	24-1/8 (613)	10-1/4 (260)	44-5/8 (1133)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	17 (432)	A5	14-17/32 (369)	14-45/64 (373)	9-1/2 (241)	44-5/8 (1133)	7-1/16 (179)
													B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	47 (1194)	5-7/8 (149)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	51-29/64 (1307)	5-7/8 (149)
284	18 (457)	36 (914)	23-5/8 (600)	10-1/4 (260)	44-1/8 (1121)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	46-3/8 (1178)	5-1/2 (140)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	53-15/64 (1352)	3-19/32 (91)
286	18 (457)	36 (914)	25-1/8 (638)	10-1/4 (260)	45-5/8 (1159)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	52-21/64 (1329)	5-1/2 (140)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	54-47/64 (1390)	3-19/32 (91)
324	18 (457)	36 (914)	26 (660)	10-1/4 (260)	46-1/2 (1181)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	18-3/4 (476)	B2	18-37/64 (472)	18-7/32 (463)	9-1/2 (241)	51-43/64 (1313)	5 (127)
													C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	52-1/64 (1321)	3-3/32 (78)
326	18 (457)	36 (914)	26 (660)	10-1/4 (260)	46-1/2 (1181)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	18-3/4 (476)	C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	52-1/64 (1321)	3-3/32 (78)
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	56-37/64 (1437)	1-9/16 (40)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 8x8x9<sup>1</sup>/<sub>2</sub> Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

## STUFFING BOX 80-PF, 80-S, 80-D

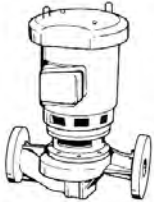
MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
254	18 (457)	36 (914)	24-1/8 (613)	10-1/4 (260)	44-5/8 (1133)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	17 (432)	A5	14-17/32 (369)	14-45/64 (373)	9-1/2 (241)	44-5/8 (1133)	7-1/16 (179)
													B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	47-5/8 (1209)	5-7/8 (149)
256	18 (457)	36 (914)	24-1/8 (613)	10-1/4 (260)	44-5/8 (1133)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	17 (432)	A5	14-17/32 (369)	14-45/64 (373)	9-1/2 (241)	44-5/8 (1133)	7-1/16 (179)
													B1	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	47 (1194)	5-7/8 (149)
													B2	16-53/64 (427)	16-45/64 (424)	9-1/2 (241)	51-29/64 (1307)	5-7/8 (149)
284	18 (457)	36 (914)	23-5/8 (600)	10-1/4 (260)	44-1/8 (1121)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	16-1/8 (410)	B1	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	46-3/8 (1178)	5-1/2 (140)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	53-15/64 (1352)	3-19/32 (91)
286	18 (457)	36 (914)	25-1/8 (638)	10-1/4 (260)	45-5/8 (1159)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	16-1/8 (410)	B2	17-37/64 (446)	17-23/64 (441)	9-1/2 (241)	52-21/64 (1329)	5-1/2 (140)
													C1	19-37/64 (497)	19-5/8 (498)	12-3/32 (307)	54-47/64 (1390)	3-19/32 (91)
324	18 (457)	36 (914)	26 (660)	10-1/4 (260)	46-1/2 (1181)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	18-3/4 (476)	B2	18-37/64 (472)	18-7/32 (463)	9-1/2 (241)	51-43/64 (1313)	5 (127)
													C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	52-1/64 (1321)	3-3/32 (78)
326	18 (457)	36 (914)	26 (660)	10-1/4 (260)	46-1/2 (1181)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	1 (25)	18-3/4 (476)	C1	20-37/64 (523)	20-31/64 (520)	12-3/32 (307)	52-1/64 (1321)	3-3/32 (78)
													C2	21-37/64 (548)	21-61/64 (557)	14-19/32 (371)	56-37/64 (1437)	1-9/16 (40)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2012 Xylem Inc.

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



# 8x8x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

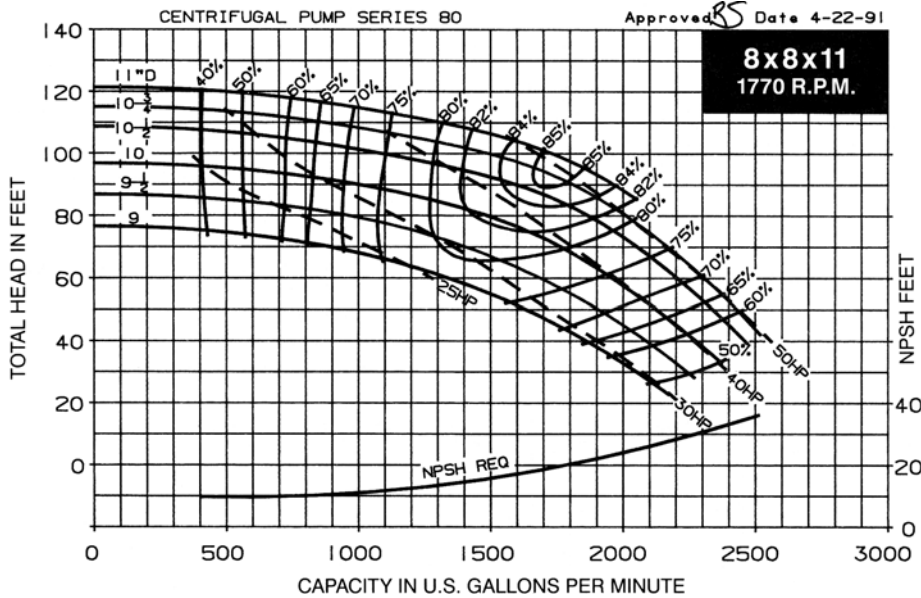
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

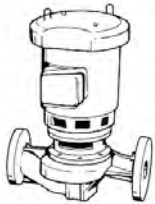
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)



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



# 8x8x11

## Series 80<sup>®</sup>

### In-Line Mounted Centrifugal Pumps

**SPECIFICATIONS**

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

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

VOLTS \_\_\_\_\_

CYCLE \_\_\_\_\_ PHASE \_\_\_\_\_

ENCLOSURE \_\_\_\_\_

APPROX. WEIGHT \_\_\_\_\_

SPECIALS \_\_\_\_\_

**MATERIALS OF CONSTRUCTION**

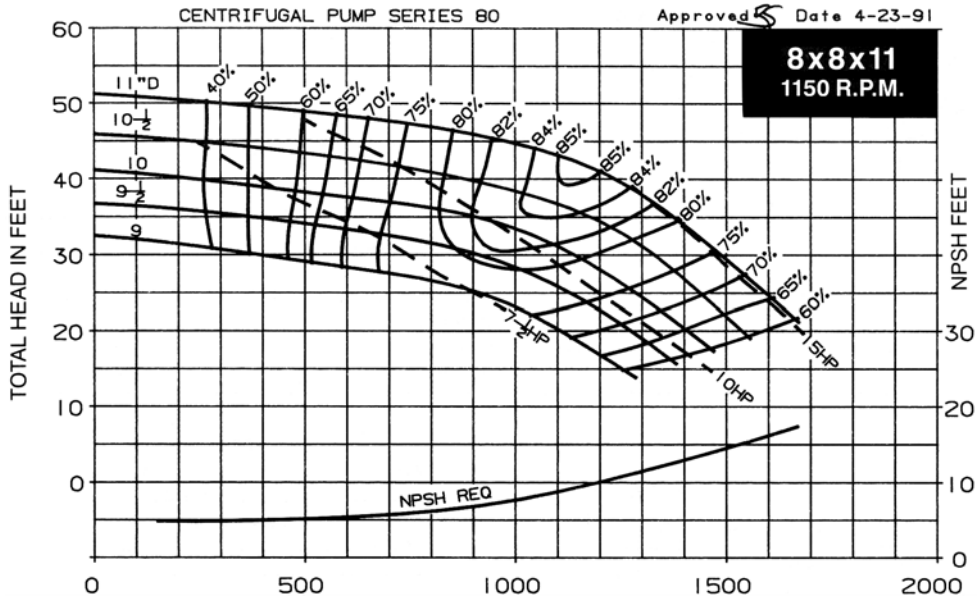
- BRONZE FITTED     ALL IRON

**MAXIMUM WORKING PRESSURE**

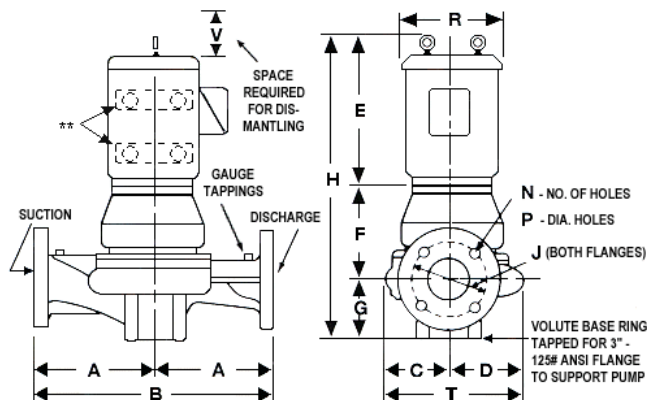
- 175 psi (12 bar) W.P. with 125# ANSI flange drilling
- 250 psi (17 bar) W.P. with 250# ANSI flange drilling (requires 80-S)
- 300 psi (21 bar) W.P. with 250# ANSI flange drilling (EPR-Sintered Silicon Carbide-Sintered Silicon Carbide) Requires 80-S

**TYPE OF SEAL**

- 80 Standard Seal (Buna-Carbon/Ceramic)
- 80 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 80 -S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 80 -D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic) Requires external water source
- 80 -PF Stuffing Box Construction w/ Flushed Packing (Graphite Impregnated PTFE)







FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	8"	1-5/8 (41)	14-3/4 (375)
Suction	8"	1-5/8 (41)	14-3/4 (375)

FLANGES ARE 125# ANSI - STANDARD  
250# ANSI - AVAILABLE

\*\* Motor may be supplied with feet

DIMENSIONS - Inches (mm)

STANDARD SEAL 80, 80-F

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
254	18 (457)	36 (914)	9 (229)	11-3/8 (289)	24-1/8 (613)	8-1/8 (206)	10-1/4 (260)	42-1/2 (1080)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	17 (432)	-	20-3/8 (518)	5-3/4 (146)
256	18 (457)	36 (914)	9 (229)	11-3/8 (289)	24-1/8 (613)	8-1/8 (206)	10-1/4 (260)	42-1/2 (1080)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	17 (432)	-	20-3/8 (518)	5-3/4 (146)
284	18 (457)	36 (914)	9 (229)	11-3/8 (289)	23-5/8 (600)	8-1/8 (206)	10-1/4 (260)	42 (1067)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	20-3/8 (518)	5-3/4 (146)
286	18 (457)	36 (914)	9 (229)	11-3/8 (289)	25-1/8 (638)	8-1/8 (206)	10-1/4 (260)	43-1/2 (1105)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	20-3/8 (518)	5-3/4 (146)
324	18 (457)	36 (914)	9 (229)	11-3/8 (289)	26 (660)	8-1/8 (206)	10-1/4 (260)	44-3/8 (1127)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	18-3/4 (476)	4-5/8 (117)	20-3/8 (518)	5-3/4 (146)
326	18 (457)	36 (914)	9 (229)	11-3/8 (289)	26 (660)	8-1/8 (206)	10-1/4 (260)	44-3/8 (1127)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	18-3/4 (476)	4-5/8 (117)	20-3/8 (518)	5-3/4 (146)

STUFFING BOX 80-PF, 80-S, 80-D

MOTOR FRAME	A	B	C	D	E (Max)	F	G	H (Max)	125# ANSI			250# ANSI			R	S (Max)*	T	V (Min)
									J	N	P	J	N	P				
254	18 (457)	36 (914)	9 (229)	11-3/8 (289)	24-1/8 (613)	8-1/8 (206)	10-1/4 (260)	42-1/2 (1080)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	17 (432)	-	20-3/8 (518)	5-3/4 (146)
256	18 (457)	36 (914)	9 (229)	11-3/8 (289)	24-1/8 (613)	8-1/8 (206)	10-1/4 (260)	42-1/2 (1080)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	17 (432)	-	20-3/8 (518)	5-3/4 (146)
284	18 (457)	36 (914)	9 (229)	11-3/8 (289)	23-5/8 (600)	8-1/8 (206)	10-1/4 (260)	42 (1067)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	20-3/8 (518)	5-3/4 (146)
286	18 (457)	36 (914)	9 (229)	11-3/8 (289)	25-1/8 (638)	8-1/8 (206)	10-1/4 (260)	43-1/2 (1105)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	16-1/8 (410)	4-5/8 (117)	20-3/8 (518)	5-3/4 (146)
324	18 (457)	36 (914)	9 (229)	11-3/8 (289)	26 (660)	8-1/8 (206)	10-1/4 (260)	44-3/8 (1127)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	18-3/4 (476)	4-5/8 (117)	20-3/8 (518)	5-3/4 (146)
326	18 (457)	36 (914)	9 (229)	11-3/8 (289)	26 (660)	8-1/8 (206)	10-1/4 (260)	44-3/8 (1127)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	18-3/4 (476)	4-5/8 (117)	20-3/8 (518)	5-3/4 (146)

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

NOTE: For 1 phase Motors add 1" to dimensions E & H.

\*For TEFC Motors add S dimension to dimensions E & H.

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

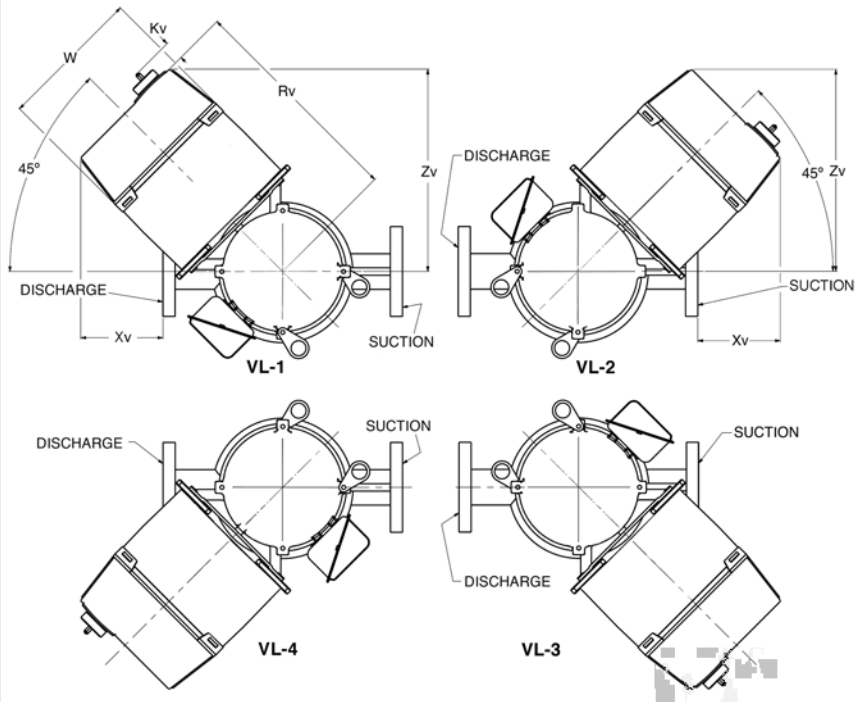
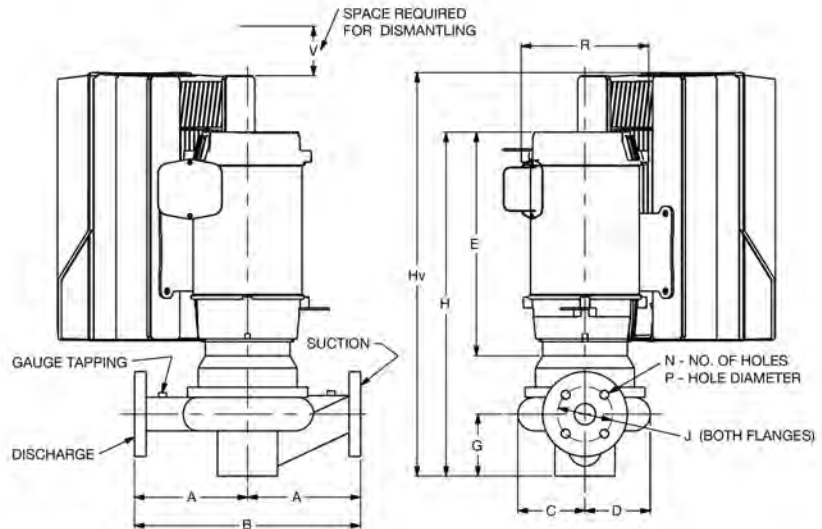




# 8x8x11 Series 80<sup>®</sup>

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic<sup>®</sup> featuring Sensorless Control

TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
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



Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.  
© 2013 Xylem Inc.



# 8x8x11 Series 80®

In-Line Mounted Centrifugal Pumps  
With Optional Integrated Technologic® featuring Sensorless Control

**DIMENSIONS – Inches (mm)**

**STANDARD SEAL 80, 80-F**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
254	18 (457)	36 (914)	24-1/8 (613)	10-1/4 (260)	42-1/2 (1080)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	42-1/2 (1079)	4-47/64 (120)
256	18 (457)	36 (914)	24-1/8 (613)	10-1/4 (260)	42-1/2 (1080)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	42-1/2 (1079)	4-47/64 (120)
													B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	44-7/8 (1140)	3-5/64 (78)
284	18 (457)	36 (914)	23-5/8 (600)	10-1/4 (260)	42 (1067)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	44-1/4 (1124)	2-35/64 (65)
286	18 (457)	36 (914)	25-1/8 (638)	10-1/4 (260)	43-1/2 (1105)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	45-3/4 (1162)	2-35/64 (65)
													B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	50-13/64 (1275)	2-35/64 (65)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	52-39/64 (1336)	3/8 (10)
324	18 (457)	36 (914)	26 (660)	10-1/4 (260)	44-3/8 (1127)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	16-5/32 (410)	9-1/2 (241)	49-35/64 (1259)	1-27/32 (47)
													C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	49-57/64 (1267)	21/64 (8)
326	18 (457)	36 (914)	26 (660)	10-1/4 (260)	44-3/8 (1127)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	18-3/4 (476)	C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	49-57/64 (1267)	21/64 (8)
													C2	21-37/64 (548)	19-7/8 (505)	14-19/32 (371)	54-29/64 (1383)	1-7/8 (48)

**STUFFING BOX 80-PF, 80-S, 80-D**

MOTOR FRAME	A	B	E (Max)	G	H (Max)	125# ANSI			250# ANSI			R	VFD	Rv	Zv	W	Hv	Xv
						J	N	P	J	N	P							
254	18 (457)	36 (914)	24-1/8 (613)	10-1/4 (260)	42-1/2 (1080)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	42-1/2 (1079)	4-47/64 (120)
256	18 (457)	36 (914)	24-1/8 (613)	10-1/4 (260)	42-1/2 (1080)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	17 (432)	A5	14-17/32 (369)	13-17/64 (337)	9-1/2 (241)	42-1/2 (1079)	4-47/64 (120)
													B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	44-7/8 (1140)	3-5/64 (78)
284	18 (457)	36 (914)	23-5/8 (600)	10-1/4 (260)	42 (1067)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	44-1/4 (1124)	2-35/64 (65)
286	18 (457)	36 (914)	25-1/8 (638)	10-1/4 (260)	43-1/2 (1105)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	16-1/8 (410)	B1	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	45-3/4 (1162)	2-35/64 (65)
													B2	17-37/64 (446)	15-29/64 (392)	9-1/2 (241)	50-13/64 (1275)	2-35/64 (65)
													C1	19-37/64 (497)	17-5/8 (448)	12-3/32 (307)	52-39/64 (1336)	3/8 (10)
324	18 (457)	36 (914)	26 (660)	10-1/4 (260)	44-3/8 (1127)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	18-3/4 (476)	B2	18-37/64 (472)	16-5/32 (410)	9-1/2 (241)	49-35/64 (1259)	1-27/32 (47)
													C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	49-57/64 (1267)	21/64 (8)
326	18 (457)	36 (914)	26 (660)	10-1/4 (260)	44-3/8 (1127)	11-3/4 (298)	8	7/8 (22)	13 (330)	12	7/8 (22)	18-3/4 (476)	C1	20-37/64 (523)	18-21/64 (465)	12-3/32 (307)	49-57/64 (1267)	21/64 (8)
													C2	21-37/64 (548)	19-7/8 (505)	14-19/32 (371)	54-29/64 (1383)	1-7/8 (48)

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

