

Series 80 In-Line Mounted Centrifugal Pumps

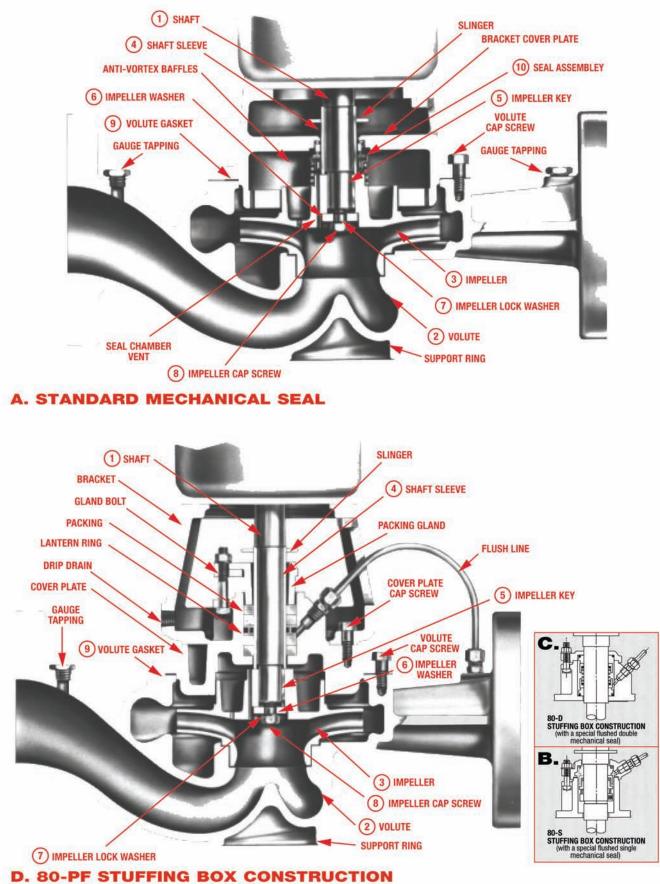
APPLICATIONS

- HYDRONIC HEATING & COOLING SYSTEMS INDUSTRIAL PROCESS
- GENERAL SERVICE PRESSURE BOOSTING

ADVANTAGES

- CLOSE COUPLED SPACE SAVING LONG LIFE LOW MAINTENANCE
- HORIZONTAL OR VERTICAL INSTALLATION SEVERAL SEAL OPTIONS





(with four rings of packing plus a flush RING)

B&G SERIES 80 - AN EFFICIENT RUGGED CLOSE COUPLED PUMP DESIGNED FOR VERTICAL AND HORIZONTAL IN-LINE MOUNTING.

The Series 80 is an efficient, heavy-duty, close coupled pump designed for horizontal and vertical in-line mounting. Available in sizes $1^{1/2}$ " through 8". 1/4 to 50 HP at 1750 RPM and 5 to 60 HP at 3500 RPM. Available in bronze fitted and all cast iron construction. Flows to 2500 GPM, heads to 380 ft. Available in 175#, 250# and 300# working pressure designs.

MOTOR BRACKET

Precisely machined rigid cast iron motor bracket ensures positive concentric alignment between motor and pump components. This helps promote maintenance free operation and contributes to pump longevity.

VOLUTE

Standard construction is for 175 psi working pressure, with flanges drilled to mate with 125# ANSI companion flanges. 250 psi and 300 psi working pressure with 250# flange drilling is optionally available.*

MOTORS

Standard NEMA JM and JP vertical solid shaft motors in dripproof enclosures are utilized on B&G Series 80 pumps. High efficiency motors, as well as TEFC and explosion proof enclosures are available options. Motor may be rotated on its bracket at 90° intervals to allow convenient positioning of the junction box.

CONSTRUCTION MATERIALS

(For parts in contact with fluid pumped)

DES	CRIPTION	BRONZE FITTED PUMP	ALL IRON PUMP
1. Sh	aft	Alloy Steel	Alloy Steel
2. Vo	lute	Cast Iron ASTM #A159	Cast Iron ASTM #A159
3. Im	peller	Cast Bronze ASTM #B584	Cast Iron ASTM #A159
4. Sh	aft Sleeve	Aluminum Bronze	#304 Stainless Steel
5. Im	peller Key	#304 Stainless Steel	#304 Stainless Steel
6. Im	peller Washer	Brass	#304 Stainless Steel
	ipeller Lock asher	#304 Stainless Steel	#304 Stainless Steel
8. Im	peller Capscrew	#304 Stainless Steel	#304 Stainless Steel
9. Vo	lute Gasket	Cellulose Fiber	Cellulose Fiber
10. <u>Se</u>	al Assemblies		
A. St	andard Seal		
Be	ellows	Buna N	Buna N
Fa	ces	Carbon-Ceramic	Carbon-Ceramic
M	etal Parts	Brass or Stainless Steel	Stainless Steel
Sp	pring	Stainless Steel	Stainless Steel
Fo	r Stuffing Box Design		
B. <u>Fl</u>	ushed Single Seal (80	<u>-S)</u>	
0-	Rings	EPR	EPR
Fa	ces	Carbon-Tungsten Carbide	Carbon-Tungsten Carbide
M	etal Parts	Stainless Steel	Stainless Steel
Sp	pring	Stainless Steel	Stainless Steel
C. Fl	ushed Double Seal (80	<u>)-D)</u>	
0-	Rings	EPR	EPR
Fa	ces	Carbon-Ceramic	Carbon-Ceramic
M	etal Parts	Stainless Steel	Stainless Steel
D. Pa	acked Type (80-PF)		
Pa	icking	Impregnated Braided Yarn	Impregnated Braided Yarn
Gl	and	Bronze	Cast Iron
La	intern Ring	Glass Filled TFE	Glass Filled TFE

INTERNALLY FLUSHED MECHANICAL SEAL

The B&G built-in mechanical seal with anti-vortex baffles in the seal chamber provide five times the flow around the seal face versus an externally flushed seal. Costly and inefficient external flush lines are not needed.

CONVENIENT TO INSTALL

In-line mounting eliminates the need for special pads or foundations in most cases. Standard piping supports on both sides of pump are required at all the times. The support ring located on the underside of pump volute is designed to provide ground support when necessary.

HORIZONTAL MOUNTING

Pump may be mounted horizontally in vertical piping if desired.

CONVENIENT TO SERVICE

Back pullout design allows servicing without disturbing the piping. Repairs can be made quickly and easily. Thus down-time is kept to a minimum.

IMPELLER BALANCED TO ANSI/HI GRADE G6.3

Quiet, vibration free operation results from this efficient balancing method. Factory selected diameters ensure that required performance will be attained.

* 250 psi working pressure requires 80-S construction. 300 psi working pressure requires 80-S construction with silicon carbide seal.

SEAL SELECTION GUIDE

A. STANDARD SEALS

Buna-PH Limitations 7-9; Temperature Range -20" to +225"F

EPR-PH Limitations 7-11; Temperature Range -20 to +250°F For use on open or closed clear water systems. Maximum working pressure 175 psi.

B. FLUSHED SINGLE SEALS (Stuffing Box Design)

PH Limitations 7-11; Temperature Range -20 to +300°F** For use on closed or open systems where the temperature or pressure requirements exceed the limitations of the standard seal. Available in 175 psi or 250 psi working pressures.

C. FLUSHED DOUBLE SEALS (Stuffing Box Design)

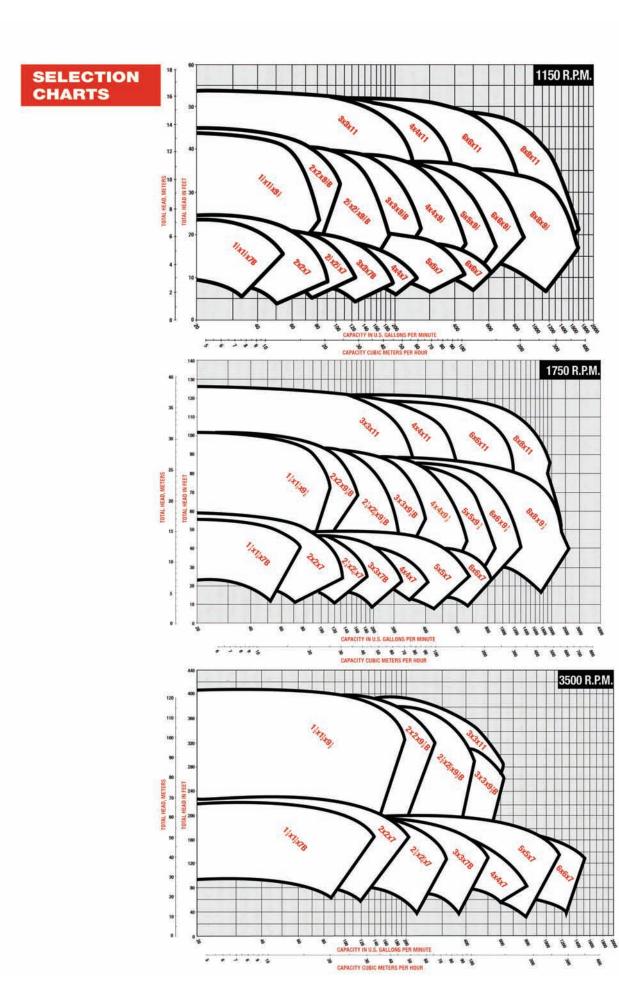
PH Limitations 7-9; Temperature Range 0 to +250°F For use on closed or open low pressure systems which may contain a high concentration of abrasives. An external flush is required. Maximum working pressure 175 psi.

D. PACKING (Stuffing Box Design)

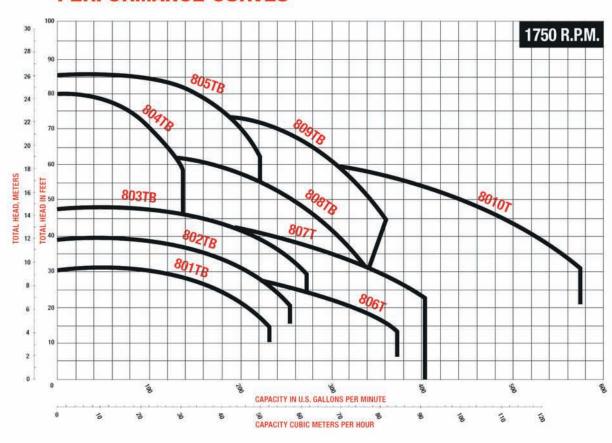
PH Limitations 7-9; Temperature Range 0 to +190°F For use on open or closed systems which require a large amount of make-up water, as well as systems which are subjected to widely varying chemical conditions and solids buildup. Maximum working pressure 175 psi.

**For operating temperatures above 250°F, a cooled flush is required – and is recommended for temperatures above 225°F for optimum seal life. On closed systems, cooling is accomplished by inserting a small heat exchanger in the flush line to cool the fluid.

Flush-line Filters and Sediment Separators are available on special request.



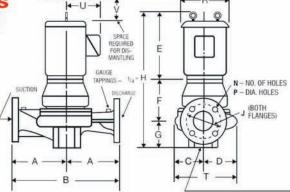
SERIES 80 - STANDARD SIZE PUMP



-R-

PERFORMANCE CURVES





PUMP CONSTRUCTION: BRONZE FITTED, MECHANICAL SEAL

208-230/460 VOLT 3 PHASE, 60 HERTZ OPEN DRIPPROOF MOTORS, 1750 RPM

MAXIMUM WORKING PRESSURE 175 PSI (12 BAR)

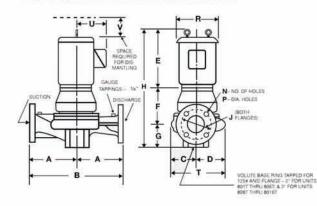
VOLUTE BASE RING TAPPED FOR 125# ANSI FLANGE - 2" FOR UNITS 801T THRU 805T; & 3" FOR UNITS 806T THRU 8010T

UNIT	and the second	MOTOR		A	В	C	D	E	F	G	н	12	5# ANSI		R	Т	v	U	
NO.	PUMP	H.P.	FR.				-	(MAX.)		<u> </u>		J	N	Ρ	1 "				
801TB		1.5	145JM	91/2	19	51/4	61/4	125/8	47/8	51/2	23	6			93/4	111/2		5 ³ /4	
802TB	3x3x7B	2	1.200101	1.200101	(241)	(483)	(133)	(159)	(321)	(124)	(140)	(584)	(152)	2		(248)	(292)	41/2	(146)
803TB		3	3 182JM					155/16	10.12		253/4 (654)		(102)		113/4	- 24 EU	(114)	81/8	
804TB	2x2x91/2B			10 (254)	20 (508)	6 (152)	65/8 (168)	(389)	43/4 (121)	53/8 (137)	257/16 (646)	43/4 (121)	(102)	3/4	(298)	125/8 (321)		(206)	
805TB	21/2x21/2x91/2B	5	184JM	103/4 (273)	211/2 (546)	63/8 (162)	71/8 (181)		413/16 (122)	6 (152)	261/8 (664)	51/2 (140)		(19)	(200)	131/2 (343)	43/4 (121)		
806T	4x4x7	2	145JM	101/2	21	51/2	63/4	125/8 (321)	51/8	63/8	241/8 (613)	71/2	8	(10)	93/4 (248)	121/4	5	51/4 (146)	
807T	10101	3	182JM	(267)	(533)	(140)	(171)	155/16	(130)	(162)	2613/16 (681)	(191)	(203)		113/4	(311)	(127)	81/8	
808TB	3x3x91/2B	5	184JM	111/2	23	6 ⁵ /8	71/2	(389)	413/16	61/8	261/4 (667)	6	4		(298)	141/8	41/2	(206)	
809TB	01010120	7.5	213JM	(292)	(584)	(168)	(191)	191/4	(122)	(156)	301/4 (768)	(152)	(102)		14	(359)	(114)	83/4	
8010T	4x4x91/2		210011	121/2 (318)	25 (635)	71/4 (184)	81/2 (216)	(489)	51/a (130)	71/8 (181)	311/2 (800)	71/2 (191)	8 (203)		(356)	153/4 (400)	5 (127)	(222)	

Dimensions subject to change without notice. Do not use for construction purposes.

DIMENSIONS

Dimensions subject to change without notice. Dot not use for construction purposes.



KEY FOR MATCHING 125# ANSI FLANGES To volute base ring For pump support

PUMP SIZE	FLANGE SIZE
11/2 x 7	1"
2 x 7	11/2"
21/2 x 7	2"
3 x 7	2"
4 x 7	3"
5 x 7	3"
6 x 7	3"
11/2 x 91/2	1"
2 x 91/2	2"
21/2 x 91/2	2"
3 x 91/2	3"
4 x 91/2	3"
5 x 91/2	3"
6 x 91/2	3"
8 x 91/2	3"
3 x 11	3"
4 x 11	3"
6 x 11	3"
8 x 11	3"

PUMP FLANGES IN INCHES (mm)

PIPE SIZE	OUTER DIAMETER	THICKNESS
11/2	6 (152)	13/16 (30)
2	61/4 (159)	7/8 (22)
21/2	73/8 (187)	1 (25)
3	8 (203)	11/8 (30)
4	91/2 (241)	11/4 (32)
5	103/4 (273)	13/8 (35)
6	121/8 (308)	17/16 (37)
8	143/4 (375)	15/8 (41)

						-		LIVOIC	INS IN INCH	MAX.		25 #AN	si	25	50 #AN	SI		Ĩ Î	
MOTOR FRAME	A	в	С	D	MAX.	STD. SEAL -F	STUFF. BOX F	G	MAX. STDF H*	STUFF. BOX H*	 J	N	Р	J	N	Р	MAX.	т	MIN.
	A	D	U	U	C	E.		-	ZE 11/2 x 1		J	N		J	N		n		V
143		· ·		-	115/8 (295)		FUI	11 012	205/8 (524)	233/4 (603)					-		93/4	-	
145		1.7245			125/8 (321)		73/4	100000.00	215/8 (549)	243/4 (629)	testion of	4 (102)	1211	41/2	4	7/8	(248)	- Shara	
182	8 (203)	16 (406)	45/8 (117)	43/4	15 ⁵ /16 (389)	45/8 (117)	(197)	4 ³ /8 (111)	24 ³ /8 (619)	27 ^{1/2} (699)	3 ⁷ /8 (98)		^{5/8} (16)	(114)	(102)	(22)	11 ³ /4 (298)	9 ³ /8 (238)	4 (102
213	(200)	(400)	(10)	(121)	191/4	(117)	N.A.	(111)	281/4	(055) N.A.	(98)		(10)	-	N.A.		14	(200)	(102
215			5 - S	1. J.	(489)			DIIMD	(718)	1000010					IV.M.		(356)	5 - 5	
110				-	1151 (005)			PUMP	SIZE 2 x		_						02/		
143					115/8 (295) 125/8 (321)		73/4		211/8 (537) 221/8 (562)	241/4 (616) 251/4 (641)							9 ³ / ₄ (248)		
182	81/2	17	43/4	51/4	155/16	47/8	(197)	47/8	2413/16	2715/16	43/4 (121)	4	3/4	5	8	3/4	113/4	10	-4
184 213	(216)	(432)	(121)	(133)	(389)	(124)	81/2	(124)	(630) 28 ³ /4	(710) 32 ⁵ /8		(102)	(19)	(127)	(203)	(19)	(298)	(254)	(102)
215					(489)		(216)		(730)	(829)							(356)		
							PU	MP S	IZE 21/2 X	21/2 x 7									
143					115/8 (295)	47/8			213/4 (552)	247/8 (632)	516				1		93/4		
145					125/8 (321) 155/16		8 (203)		223/4 (578) 251/2	257/8 (657) 285/8			1923.0	5 ^{7/8} (149)			(248)	374.37	
184	9 (229)	18 (457)	5 (127)	5 ⁵ /8 (143)	(389)	(124)	(200)	5 ^{1/4} (133)	(646)	(727)	5 ¹ /2 (140)	4 (102)	3/4 (19)		8 (203)	7/8 (22)	(298)	10 ⁵ /8 (270)	41/)
213 215	(225)	(457)	(121)		19 ^{1/4} (489)		83/4	(100)	29 ³ /8 (746)	331/4 (845)	(140)	(102)	(13)	(145)	(200)	(66)	14 (356)	(210)	1115
254					241/8 (613)	83/4 (222)	(222)		381/8 (968)	381/8 (968)							17 (432)		
							P	UMP	SIZE 3 x 3	x 7B									
143					115/8 (295)		8 (203)		22 (559)	251/8 (638)							93/4		
145					125/8 (321) 155/16			2422.47	23 (584) 25 ³ /4	26 ¹ /8 (664) 28 ⁷ /8			16777			No.	(248)		
184	91/2	19	51/4	61/4	(389)		(200)	5 ¹ /2 (140)	(654)	(733)	6 (153)	4 (102)	^{3/4} (19)	6 ⁵ /8 (168)	8 (203)	^{7/8} (22)	(298)	(292)	
213	(241)	(483)	(133)	(159)	19 ¹ /4 (489)		83/4	(140)	29 ⁵ /8 (752)	331/2 (851)	(155)	(102)	(13)	(100)	(200)	(66)	14 (356)	(202)	
215					241/8	83/4 (222)		383/8	383/8							17			
256					(613)	(222)	1 BODOLA # 1		(975)	(975)							(432)		
		_						PUMP	SIZE 4 x										
145					125/8 (321) 155/16 (389)		81/4		241/8 (613) 2613/16	271/4 (692) 2915/16							93/4 (248) 113/4		
184	1				191/4	5 ^{1/8} (130)	(210)		(681)	(760)							(298)		
213	101/2	21 (533)	51/2	63/4	(489)	(130)		63/8	30 ³ /4 (781)	34 ^{5/8} (879)	71/2	8	3/4	77/8 (200)	8 (203)	7/8 (22)	14	121/4	5
254	(267)	(000)	(140)	(171)	241/8	9	9	(162)	391/2	391/2	(191)	(203)	(19)	(200)	(203)	(22)	(356)	(311)	(127
256					(613)	(229)	(229)		(1003)	(1003)							(432)		
284		2	4	A	235/8 (600)	Antivite			39 (991) SIZE 5 x	39 (991)				()		1	161/8 (410)	2	
145					125/8 (321)			PUIVIP	253/8 (645)	28 ¹ /2 (724)							93/4 (248)	_	
182	1				155/16	51/2	8 ⁵ /8 (219)		281/16	313/16							113/4		
184					(389)	(140)	(219)		(713)	(792)							(298)		
213			524	714	19 ^{1/4} (489)	100 7 .1		717	32 (813)	357/s (911)	016		76	01/		76	14 (356)	10	
254	12 (305)	24 (610)	5 ^{3/4} (146)	71/4 (184)	241/8			71/4 (184)	403/4	403/4	8 ¹ /2 (216)	8 (203)	7/8	9 ¹ /4 (235)	8 (203)	7/8 (22)	17	13 (330)	41/
256 284	-	1	1.10/		(613) 23 ⁵ /8 (600)	93/8	9 ³ /8 (238)		(1035) 401/4 (1022)	(1035) 401/4 (1022)	()	(-00)	(date)	(100)	(1.000	(432)	(000)	(114)
286	1				251/8 (638)	(238)	(200)		413/4 (1022)	40//4 (1022)							(410)		
324					26	a losse an			425/8	425/8							183/4		

*For 1 phase motors add 1" maximum to dimensions E & H.

MOTOR	-				MAX. D E*	STD.			MAX.	ES (mm) MAX.	1	25 #AN	SI	2	50 #AN	SI															
FRAME	A	в	C	D		SEAL -F F	STUFF. BOX F	G	STDF H*	STUFF. BOX H*	J	N	Р	J	N	Р	MAX. R	т	MIN V												
								PUMP	SIZE 6 x	6 x 7																					
182		1			155/16		91/4		291/2	3211/16		1				[113/4														
184 213	-				(389) 191/4	61/16	(235)		(749) 337/16	(830) 37 ⁵ /16							(298)	4													
215				(489)	(154)		(849)	(947)							(356)																
254	14	28	61/2	81/2	241/8		1	9 ¹⁵ / ₁₆ (206)	423/16	423/16	91/2	8	7/8	105/8	12	7/8	17	15	51/4												
256 284	(356)	(711)	(165)	(216)	(613) 23 ⁵ /8 (600)	Q15/16	9 ¹⁵ /16 (252)		(1072)	(1071) 41 ¹¹ /16 (1059)	(241)	(203)	03) (22)) (270)	(305)	(22)	(432) 16 ¹ /8	(381)	(133)												
286	1				251/8 (638)	(252)	(202)			433/16 (1097)	1						(410)														
324					26	2763201			441/16	441/16							183/4														
326					(660)		DIIN		(1119) E 11/2 x 1	(1119) 1/2 × 01/2	-						(476)														
143	1	ř	<u> </u>	r i	115/8 (295)		TUN	11 012	207/8 (530)	24 (610)	1	<u> </u>			Î	<u> </u>	93/4		È												
145	1				125/8 (321)		713/16		217/8 (556)	25 (635)	1						(248)														
182					15 ⁵ /16 (389)	4 ¹¹ /16 (119)	(198)		241/2 (622)	27 ⁵ /8 (702)							11 ³ /4 (298)														
213	91/2	19	57/8	61/4	191/4	(113)	Í	41/2	281/2	323/8	3 ⁷ /8 (98)	4	5/8	41/2	4	7/8	14	121/8	4												
215	(241)	(711)	(149)	(159)	(489)	-	89/16	39/16 (114)	(724)	(822)	(90)	(102)	(16)	(114)	(102)	(22)	(456)	(308)	(102												
254 256	1				24 ^{1/8} (613)	89/16	(217)		37 ¹ /4 (946)	37 ¹ /4 (946)							17 (432)														
284	1				235/8 (600)	(217)			363/4 (933)	363/4 (933)	1					. 1	161/8 (410)	1													
	10	2				5	PL	JMP S	IZE 2 x 2	x 9 ¹ /2B		cti D		a a																	
145	-				125/8 (321)		77/8		223/4 (578)	257/8 (657)	-						93/4 (248)	-													
182	ł				15 ⁵ /16 (389)	43/4	(200)		25 ⁷ /16 (646)	28 ^{9/16} (725)							11 ³ /4 (298)														
213	10	20	6	65/8	191/4	(121)		293/8	331/4	43/4	4	3/4	5	8	3/4	14	125/8	41/2													
215	(254)	(508)	(152)	(168)	(489)	-	05/-	(137)	(746) 381/8	(845)	(121)	1.2	(19)	(127)	(203)	(19)	(356)	(321)	(114												
254 256	100.04550.0	1000000	1.1.1999/1711	1.5.000.64	241/8 (613)	85/8	8 ⁵ /8 (219)	(968)	38 ¹ /8 (968)	1 TASC T	C. Sobert	21,9940.		07274	0.00000	17 (432)	YN MACH YN	4229429													
284	1				235/8 (600)	(219)		375/8 (956)	375/8 (956)	1						161/8	1														
286					251/8 (638)		DUIN	0.017	391/8 (994)	391/8 (994)							(410)														
1.15	-	ri -	<u> </u>		1051 10041	ř – – –	PUM	P SIZ	E 21/2 x 21		000	<u>.</u>			-		001 (0.10)	1	ř –												
145	1				125/8 (321) 155/16		715/16		231/2 (597) 261/8	265/8 (676) 291/4	-						93/4 (248) 113/4	1													
184	1				(389)	413/16 (122)	(202)		(664)	(743)							(298)														
213					191/4	(122)			301/8	34							14														
215 254	103/4	211/2	63/4	71/8	(489) 241/8	811/16	6	(765) 38 ⁷ /8	(864) 38 ⁷ /8	51/2	4	3/8	57/8	8	7/8	(356)	131/2														
256	(273)	(546)	(162)	(181)	(613)		(153)	(987)	(987)	(140)	(102)	(19)	(149)	(203)	(22)	(432)	(343)	(121													
284 286					235/8 (600) 251/8 (638)	8 ^{11/16} (221)	(221)		383/8 (975) 397/8 (1013)	383/8 (975) 397/8 (1013)	-						16 ¹ /8 (410)														
324	1				26	(221)			403/4	403/4							183/4	1													
326	1				(660)				(1035)	(1035)						_	(476)														
									IZE 3 x 3				_																		
184 213					15 ³ /8 (391) 19 ¹ /4	413/16	715/16 (202)	4	261/4 (667) 301/4	293/8 (746) 341/8							113/4 (298) 14	-													
215	1				(489)	(122)		6 ^{1/8} (156)	(768)	(867)							(356)														
254	111/2	23	65/8	71/2	241/8												6 ¹ /8	39			(001)	39	6	4	3/4	65/8	8	7/8	17	141/8	41/2
256 284	(292)	(584)	(168)	(191)	(613) 23 ⁵ /8 (600)	811/16	8 ^{11/16} (221)					381/2 (978)	(991) 38 ¹ /2 (978)	(152)	(102)	(19)	(168)	(203)	(22)	(432) 16 ¹ /8	(359)										
286	1				251/8 (638)	(221)	1. Contract of the second s					40 (1016)	40 (1016)	1						(410)											
324 326	1				26 (660)				407/8 (1038)	407/8 (1038)							18 ³ /4 (476)														
020	-				(000)		P	IMP	SIZE 4 x 4								(470)														
184		r	-		155/16 (389)	51/8	81/4 (210)			3011/16 (779)	Ê				Ť		113/4 (298)														
213	121/2	25	71/4	81/2	191/4	(130)	9	71/8	311/2	353/8	71/2	8	3/4	77/8	8	7/8	14	153/4	5												
215 254	(318)	(635)	(184)	(216)	(489) 24 ¹ /8 (613)	9 (229)	(229)	(181)	(800) 401/4 (1022)	(899) 40 ¹ /4 (1022)	(191)	(203)	(19)	(200)	(203)	(22)	(356) 17 (432)	(400)	(127												
							Р	UMP	SIZE 5 x 5	And the second sec				· · · ·	-																
213		<u> </u>			191/4	51/8			313/8	351/4	<u> </u>						14														
215	141/2	29	73/8	9	(489)	(130)	9	7	(797)	(895)	81/2	8	7/8	91/4	8	7/8	(356)	163/8	5												
254 256	(368)	(737)	(187)	(229)	241/8 (613)	9 (229)	(229)	(178)	401/8 (1019)	401/8 (1019)	(216)	(203)	(22)	(235)	(203)	(22)	17 (432)	(416)	(127												
200					(010)	[66.0]	P	UMP	SIZE 6 x 6								(102)														
213			1	1	191/4	53/8			333/8	371/4		7 1					14		-												
215	163/4	331/2	81/4	10	(489)	(137)	91/4	83/4	(848)	(946)	91/2	8	7/8	105/8	12	7/8	(356)														
254 256	(425)		(210)		241/8 (613)	91/4	(235)	(222)	421/8 (1070)	421/8 (1070)		(203)	(22)		(305)		17 (432)	18 ^{1/4} (464)	5 (127												
230	1				235/8 (600)	(235)				415/8 (1057)		-					161/8 (410)		(12)												
-							P	UMP	SIZE 8 x 8	x 91/2																					
254					241/8				445/8	445/8	-	19 P					17														
256 284	18	36	81/2	11	(613) 23 ⁵ /8 (600)	101/4	101/4	101/4	(1133) 441/8 (1121)	(1133) 44 ¹ /s (1121)	113/4	8	7/8	13	12	1	(432) 16 ¹ /8	191/2	61/4												
284	(457)		(216)		251/8 (638)	(260)	(260)	(260)	441/8 (1121) 455/8 (1159)	441/8 (1121) 455/8 (1159)	(298)		(22)	(330)	(305)	(25)	(410)	(495)	10000044												
324	1			1.1.1	26	1.7.4	0.0	1	461/2	461/2	1		1		1	1	183/4	1													
326	1				(660)				(1181)	(1181)	1						(476)														

*For 1 phase motors add 1" maximum to dimensions E & H.

Dimensions subject to change without notice. Do not use for construction purposes.

							D	IMEN	ISIONS IN I	NCHES (mr	n)									
MOTOR	A					STD.	80-S.		MAX. STD	MAX. 80-S,	1:	25 #AN	SI	2	250 #ANSI					
FRAME		В	C	D	MAX. E*	SEAL, -F F	D, -PF F	G	SEAL, -F H*	-D, -PF H*	J	N	Ρ	J	N	Р	R	MAX. S**	Т	MIN
								PUN	AP SIZE 3	x 3 x 11										
213					191/4	43/16	73/16	1.00	303/16	333/16							14			
215					(489)	(106)	(183)		(767)	(843)							(356)			
254			1-5-W047-A		241/8			1	383/8	383/8				2410			17	-		
256	12	24	615/16	75/8	(613)		7 ¹ /2 (171) (191)	63/4	(975)	(975)	6	4	3/4	65/8	8	7/8	(432)		149/16	53
284	(305)	(610)	(176)	(194)	235/8 (600)	71/2		(171)	37 7/8 (962)	37 7/8 (962)	(152) (1	(102)	(19)	(168)	(203)	(22)	161/8		(370)	(14
286	10-200 10.200		10.1402.001		251/8 (638)	(191)		39 3/8 (1000)	39 3/8 (1000)			in heating	1.000.000	on-sink/e	10000	(410)	45/8	1200-1202	11/245	
324					26				401/4	401/4							183/4	(117)		
326	(660)			(1022)	(1022)		· · · · ·					(476)		12 13						
								PUN	AP SIZE 4	x 4 x 11										
213			1		191/4	43/8	43/8 73/8 (111) (187) 71/2 711/16 711/16 (191)	321/8	351/8					1		14				
215	13	26	79/16	89/16	(489)				(816)	(892)	71/2	71/2 8	3/4	77/8	8	7/8	(356)		16 ^{1/8} (410)	51/4 (133)
254	(330)	(660)	(192)	(217)	241/8				395/16	395/16	(191) (203)	(203)	(19)	(200)	(203)	(22)	17			
256	1				(613)	(195)	(195)	A COMPANY	(999)	(999)			-4	1			(432)			
	с і.			8		a h ch a	- 10 - 10 - 1	PUN	IP SIZE 6	x 6 x 11	1	64	0	о. 	101 	04 	10 10 10 10 10		\$15 - 24	
213					191/4	79/16	T	223	359/16		1	1		T	T	14				
215					(489)	-	(192)		-	(903)	91/2	8 (203)	7/8				(356)			
254	16	32	83/8	93/4	241/8			83/4	4011/16	4011/16				105/8	12	7/8	17	7	181/8	55/
256	(406)	(813)	(213)	(248)	(613)	713/16	713/16	(222)	(1033)	(1033)	(241)		(22)	(270)	(305)	(22)	(432)		(460)	
284	(400)	(013)	(213)	(240)	235/8 (600)	(198)	(198)	(666)	403/16 (1021)	403/16 (1021)	(241)	(203)	(66)	(210)	(303)	(22)	161/8	45/8	(400)	(135
286					251/8 (638)	(190)	(130)		4111/16 (1059)	4111/16 (1059)							(410)	(117)		
324					26 (660)	1			429/16 (1081)	429/16 (1081)							183/4 (476)	(111)		
								PUN	AP SIZE 8	x 8 x 11										
254					241/8				421/2	421/2							17			
256					(613)				(1080)	(1080)							(432)	5		
284	18	36	9	113/8	235/8 (600)	81/8	81/8	101/4	42 (1067)	42 (1067)	113/4	8	7/8	13	12	7/8	161/8	1.000	203/8	53/
286	(457)	(914)	(229)	(289)	251/8 (638)	(206)	(206)	(260)	431/2 (1105)	431/2 (1105)	(298)	(203)	(22)	(330)	(305)	(22)	(410)		(518)	
324	102 0.17A	1000		20 - X 1	26	100 C C C		10 M	443/8	443/8	540 - 540	100 2464	NS 00	×0	1	901 102	183/4	(117)	CO. DA	
326					(660)				(1127)	(1127)							(476)	C POULSER II		

*For 1 phase motors add 1" maximum to dimensions E & H. **For TEFC Motors add S dimensions to dimensions E & H. Dimensions subject to change without notice. Do not use for construction purposes.

TYPICAL SPECIFICATIONS FOR BELL & GOSSETT SERIES 80 IN-LINE PUMPS

Furnished and installed with capacities as shown on plans. Pumps shall be in-line type, close-coupled single stage design, for installation in vertical or horizontal position, and capable of being serviced without disturbing piping connections.

Pump casing shall be of Class 30 cast iron. The impeller shall be of cast bronze, closed type, balanced to ANSI/HI Grade G6.3, keyed to the shaft and secured by locking capscrew.

The liquid cavity shall be sealed off at the motor shaft by an internally-flushed mechanical seal with ceramic seal seat and carbon seal ring, suitable for continuous operation at 225°F.

A bronze shaft sleeve shall completely cover the wetted area under the seal.

Pumps shall be rated for minimum of 175 psi working pressure (optional 250 psi and 300 psi working pressure). The pump case shall have gauge tappings at the suction and discharge nozzles and will include drain ports.

Motor shall meet NEMA specifications and shall be the size, voltage and enclosure called for on the plans. It shall have heavy-duty, grease lubricated ball bearings, completely adequate for the maximum load for which the pump is designed.

Each pump shall be factory tested per Hydraulic Institute standards. It shall then be thoroughly cleaned and painted with at least one coat of high-grade machinery enamel prior to shipment.

Pumps shall be Series 80 as manufactured by Bell & Gossett or equal.



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