



Bell & Gossett



Series 90 In-Line Mounted Centrifugal Pumps

- 225°F maximum working temperature, 175 PSI maximum working pressure
- Close coupled, horizontal or vertical installation
- Space saving, low maintenance, long life, quick shipment
- For hydronic heating and cooling, domestic hot water, cooling tower, machinery cooling, pressure boosting, industrial fluid transfer, refrigeration and heat exchanger circulation

Part of the

ESI PLUS
Equipment Selection Program

Bell & Gossett



ITT Industries
Engineered for life

Series "90" Dimensional Drawings

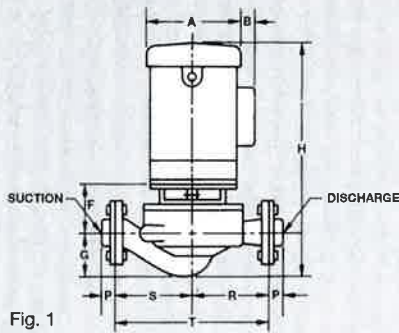


Fig. 1

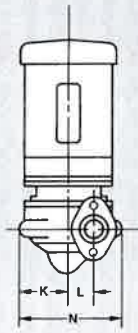


Fig. 2

3500 RPM FIG. 1

STOCK MODEL NO.	PUMP SIZE	SUCTION & DISCHARGE SIZE NPT	MOTOR H.P.	PHASE	NO. OF FLANGE BOLTS	DIMENSIONS – IN INCHES (MM)															
						MAX. A	B	F	G	MAX. H	K	L	N	P	R	S	T				
—	1AA	1	3/4	1 3	2	7 1/2 (191)	1 1/2 (38)	2 3/4 (70)	3 1/16 (94)	16 (406)	3 (76)		6 1/8 (156)								
			1	1 3			15 1/2 (397)														
			1 1/2	1			16 1/2 (419)														
			1 1/2	1			16 3/4 (413)														
			2	3			17 1/4 (451)														
			3	3			17 1/4 (438)														
							17 3/4 (451)														
90-1S	1 1/2 AA	1 1/4	1/2	1 3			1 1/2 (38)			2 3/4 (70)	3 1/16 (94)	15 1/2 (394)	3 3/8 (92)	1 3/8 (35)	7 1/2 (191)	3/4 (19)	5 (127)	6 (152)	11 (279)		
90-1T							3					—								15 1/2 (384)	
90-2S							3/4					1 3								1 1/2 (38)	16 (406)
90-2T																				—	15 3/4 (397)
90-3S							1					1 3								1 1/2 (38)	16 1/2 (419)
90-3T																				—	16 1/4 (413)
90-4S							1 1/2					1								1 1/2 (38)	17 1/4 (451)
90-4T							2					3								—	17 1/4 (438)
90-5T							3													—	17 3/4 (451)
—																				1 1/2 (38)	16 1/4 (413)
90-6S	1 1/2 AA	1 1/2	3/4	1 3	—	2 3/8 (73)	3 3/8 (98)	16 1/4 (413)	3 3/4 (95)	1 1/4 (35)	7 7/8 (200)			6 1/2 (165)	11 1/2 (292)						
90-6T					3			—								15 3/8 (403)					
90-7S					1			1 3								1 1/2 (38)	16 1/4 (425)				
90-7T																—	16 1/2 (419)				
90-8S					1 1/2			1								1 1/2 (38)	18 (457)				
90-8T																—	17 1/2 (445)				
90-9T					2			3								—	18 (457)				
90-10T					3											—	19 1/2 (495)				
—					5											1 1/2 (38)	18 1/4 (464)				
90-11S			2AA	2	1 1/2			1								—	3 (76)	4 (102)	17 3/4 (451)	3 3/4 (95)	8 (203)
90-11T					2	3	18 1/4 (464)														
90-12T					3		19 1/4 (502)														
90-13T					5																
90-14T																					

3500 RPM FIG. 2

STOCK MODEL NO.	PUMP SIZE	SUCTION & DISCHARGE SIZE NPT	MOTOR H.P.	PHASE	FRAME	NO. OF FLANGE BOLTS	DIMENSIONS – IN INCHES (MM)												
							MAX. A	F	G	MAX. H	J	K	L	N	P	R	S	T	
90-15T	1 1/2A	1 1/2	3	3	56C	2	7 1/2 (191)	3 1/16 (94)	3 1/8 (89)	18 1/2 (470)	—	4 1/8 (117)	1 (25)	9 1/2 (241)	3/4 (19)	6 1/2 (165)	7 (178)	13 1/2 (343)	
90-16T			5		184JM		11 1/4 (298)	4 1/16 (116)		20 (508)									
90-17T			7 1/2		213JM		14 (356)	3 1/2 (94)		23 3/4 (594)	3 1/2 (89)								4 1/4 (105)
90-18T			10		56		7 1/2 (191)	3 1/16 (94)		20 1/4 (514)	—								27 1/4 (695)
—	2A	2	5		4	184JM	4	11 1/4 (298)	4 1/16 (116)	3 3/4 (95)	23 3/4 (600)	3 3/8 (86)		4 1/4 (121)	9 3/8 (251)	3/16 (21)	7 1/2 (191)	14 (356)	
90-19T			7 1/2			213JM		14 (356)	27 3/4 (702)		4 (102)								
90-20T			10			215JM		—	—		—								
90-21T			15			—		—	—		—								

All single phase motors include built-in thermal overload protectors. Bronze fitted construction — companion flanges furnished for suction and discharge. Motors — open dripproof enclosure. Single phase — unit no. ending in "S" 115/230 volt cycle 1 phase. Three phase — unit no. ending "T" 208-230/460 volt 60 cycle 3 phase.

MAXIMUM WORKING PRESSURE 175 PSI.

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

Construction Materials for parts in contact with fluid

ITEM NO.	DESCRIPTION	BRONZE FITTED PUMP	ALL BRONZE PUMP*
1	Volute	Cast Iron ASTM #A159	Cast Brass ASTM #B584
2	Impeller	AA Sizes – Brass ASTM #B36 A Sizes – Cast Brass ASTM #B584	
3	Impeller Lock Nut	#304 Stainless Steel	#304 Stainless Steel
3A	Impeller Capscrew	#304 Stainless Steel	#304 Stainless Steel
4	Volute Gasket	Cellulose Fiber	Cellulose Fiber
5	Seal Assembly Seal Housing Bellows Seal Ring Spring Seat Insert Seat Gasket	Brass Buna N Rubber Carbon #304 Stainless Steel Ceramic Buna N Rubber	
6	Shaft Sleeve	All except 7½, 10, & 15 HP Sizes – Copper Alloy 110 7½, 10, & 15 HP Sizes – Aluminum Bronze – ASTM #B198	
7	Shaft	#1045 Steel	#1045 Steel
8	Bracket	Cast Iron ASTM #A159	Cast Brass ASTM #B584
9	Companion Flange	1", 1¼", 1½" – Steel SAE1006 2" – Cast Iron ASTM #A159	1", 1¼", 1½" – Brass ASTM #B36 2" – Cast Brass ASTM #B584

*Available in all sizes 1/2 through 5 HP ratings only.

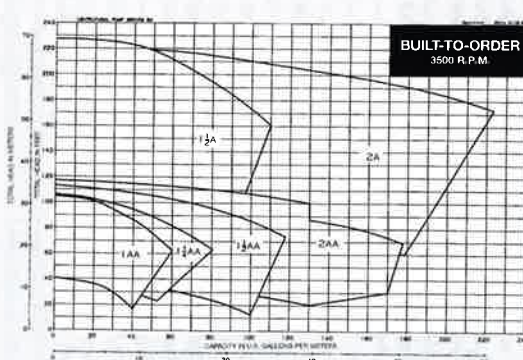
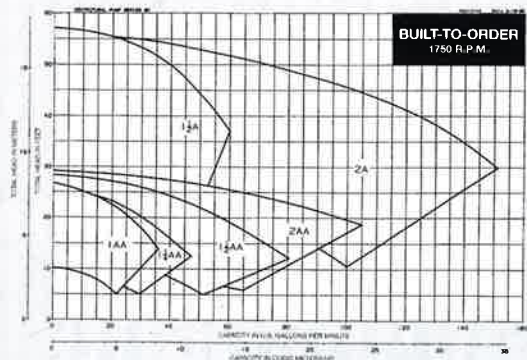
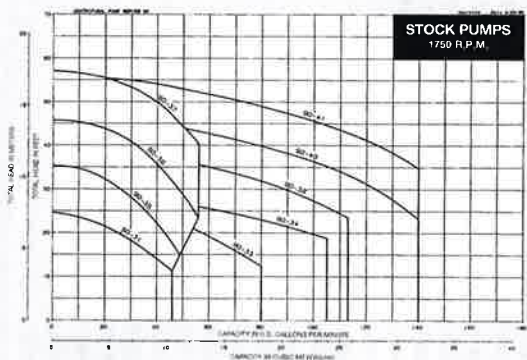
Series 90 Centrifugal Pumps

Bronze fitted construction — companion flanges furnished.
Standard Mechanical Seal

Maximum Working Pressure 175 PSI

Motors: 115/230 V, Single Phase or
208-230/460 V, Three Phase
60 Hz
ODP

Selection Charts



Add "S" to pump number when ordering single phase pumps. Add "T" to pump number when ordering three phase pumps.