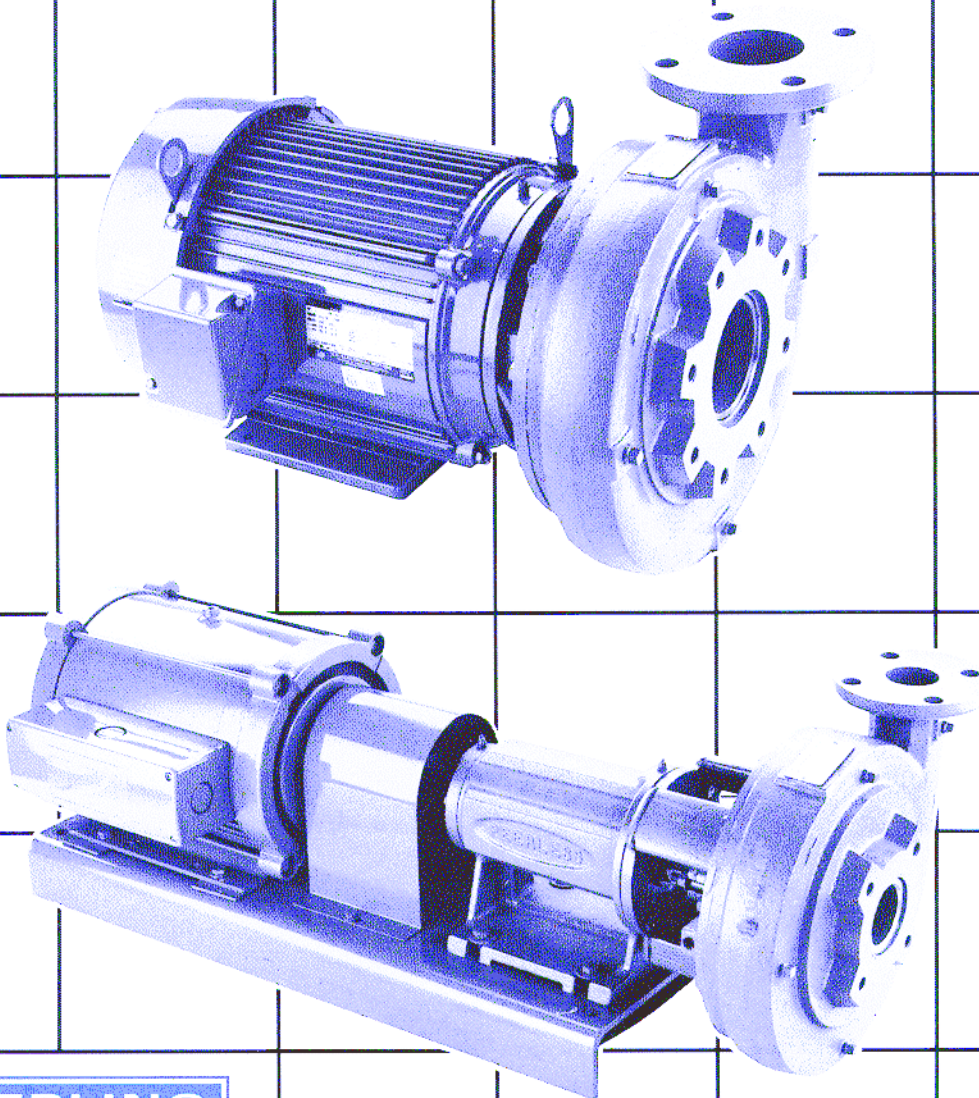


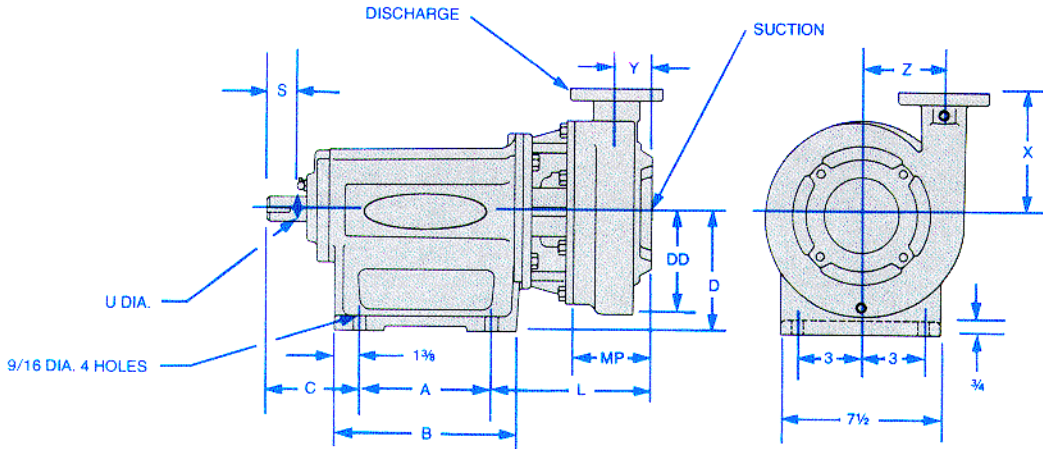
Peerless Pump

HORIZONTAL
END SUCTION PUMPS

Series C and F



Dimensions for Peerless Pump End Suction Series F Bare Pumps



PUMP DIMENSIONS IN INCHES

Pump Type	Dis-charge	Suction	A	B	C	D		DD	L				MP	S	U Dia*		X	Y	Z	Approx. Weight Pounds
						1750 RPM	3500 RPM		Style P		Style M				1750 RPM	3500 RPM				
						1750 RPM	3500 RPM		1750 RPM	3500 RPM	1750 RPM	3500 RPM								
F1 610A	1 NPT	2 NPT	5/4	8	6 3/16	5 5/16	5 5/16	4 1/4	11	11	8	8	4 1/8	2 3/4	1 1/8	1 1/8	4 3/4	2 5/8	3 3/8	95
F1 615A,J	1 1/2 NPT	2 NPT	5/4	8	6 3/16	5 5/16	5 5/16	4 3/8	11 1/4	11 1/4	8 1/4	8 1/4	4 3/8	2 3/4	1 1/8	1 1/8	5	2 3/4	3 3/8	96
F1 620A	2 NPT	2 1/2 NPT	5/4	8	6 3/16	5 5/16	5 5/16	4 1/2	11 3/4	11 3/4	8 3/4	8 3/4	4 7/8	2 3/4	1 1/8	1 1/8	5 3/8	2 3/4	3 3/8	97
F1 740	4 Flg	5 Flg	5/4	8	6 3/16	5 5/16	—	7 1/4	11 1/2	—	8 1/2	—	4 1/16	2 3/4	1 1/8	—	7 3/8	2 1/16	5 1/2	150
F2 740	4 Flg	5 Flg	5/4	8	6 3/16	—	6 5/16	7 1/4	—	13	—	10 1/4	4 1/16	2 3/4	—	1 1/4	7 3/8	2 1/16	5 1/2	168
F1 810A,G	1 NPT	2 NPT	5/4	8	6 3/16	5 5/16	—	5 1/4	11 1/8	—	8 1/8	—	4 1/8	2 3/4	1 1/8	—	5 1/8	2 3/4	4 3/8	138
F2 810A,G	1 NPT	2 NPT	5/4	8	6 3/16	—	6 5/16	5 1/4	—	12 1/2	—	9 3/4	4 1/8	2 3/4	—	1 1/4	5 1/8	2 3/4	4 3/8	138
F1 815	1 1/2 NPT	2 NPT	5/4	8	6 3/16	5 5/16	5 5/16	5 3/8	11 1/8	—	8 1/8	8 1/8	4 1/4	2 3/4	1 1/8	1 1/8	5 1/2	2 3/4	4 1/2	140
F2 815	1 1/2 NPT	2 NPT	5/4	8	6 3/16	—	6 5/16	5 3/8	—	12 3/8	—	—	4 1/4	2 3/4	—	1 1/4	5 1/2	2 3/4	4 1/2	140
F1 820A	2 NPT	2 1/2 NPT	5/4	8	6 3/16	5 5/16	—	5 1/2	11 1/8	—	8 3/8	—	4 3/4	2 3/4	1 1/8	—	6	3 1/8	4 5/8	145
F2 820A	2 NPT	2 1/2 NPT	5/4	8	6 3/16	—	6 5/16	5 1/2	—	13 3/8	—	10 1/4	4 3/4	2 3/4	—	1 1/4	6	3 1/8	4 5/8	145
F1 825A	2 1/2 Flg	3 Flg	5/4	8	6 3/16	5 5/16	—	5 3/4	10 3/4	—	7 3/4	—	3 3/8	2 3/4	1 1/8	—	7 1/4	2 1/4	4 7/8	150
F2 825A	2 1/2 Flg	3 Flg	5/4	8	6 3/16	—	6 5/16	5 3/4	—	12 1/4	—	9 1/2	3 3/8	2 3/4	—	1 1/4	7 1/4	2 1/4	4 7/8	150
F1 830A	3 Flg	4 Flg	5/4	8	6 3/16	5 5/16	—	6 1/2	10 3/4	—	7 3/4	—	3 3/8	2 3/4	1 1/8	—	7 1/2	2 1/8	5 1/4	162
F2 830A	3 Flg	4 Flg	5/4	8	6 3/16	—	6 5/16	6 1/2	—	12 1/8	—	9 3/8	3 3/8	2 3/4	—	1 1/4	7 1/2	2 1/8	5 1/4	162
F1 840	4 Flg	5 Flg	5/4	8	6 3/16	5 5/16	—	7 1/4	12 3/8	—	9 3/8	—	5 1/16	2 3/4	1 1/8	—	7 3/8	3	5 3/8	173
F1 1020A	2 Flg	2 1/2 Flg	5/4	8	6 3/16	5 5/16	—	6 3/4	11 1/8	—	8 1/8	—	4 1/4	2 3/4	1 1/8	—	7	2 1/2	5 7/8	149
F1 1025A	2 1/2 Flg	3 Flg	5/4	8	6 3/16	5 5/16	—	7 1/8	11 1/4	—	8 1/4	—	4 1/8	2 3/4	1 1/8	—	7 1/2	2 1/4	5 7/8	142
F1 1030A	3 Flg	4 Flg	5/4	8	6 3/16	5 5/16	—	7 1/2	11 1/4	—	8 1/4	—	4 3/4	2 3/4	1 1/8	—	7 1/2	2 1/2	6 1/4	161
F2 1040A	4 Flg	5 Flg	5/4	8	6 3/16	6 5/16	—	8 1/8	13 1/4	—	10 1/2	—	5	2 3/4	1 1/4	—	8	2 7/8	7	220
F2 1050A	5 Flg	6 Flg	5/4	8	6 3/16	6 5/16	—	8 3/4	14 1/2	—	11 3/4	—	6 1/4	2 3/4	1 1/4	—	9	3 1/4	7 1/8	244
F1 1125	2 1/2 Flg	3 Flg	5/4	8	6 3/16	5 5/16	5 5/16	7 1/8	10 7/8	10 7/8	8 1/8	8 1/8	4 7/16	2 3/4	1 1/8	1 1/8	8 1/16	2 5/16	6 1/8	160
F2 1125	2 1/2 Flg	3 Flg	5/4	8	6 3/16	6 5/16	6 5/16	7 1/8	—	12 5/16	—	—	4 7/16	2 3/4	—	1 1/4	8 1/16	2 5/16	6 1/8	180
F2 1140	4 Flg	5 Flg	5/4	8	6 3/16	6 5/16	6 5/16	7 3/4	12 5/8	—	9 7/8	—	4 3/4	2 3/4	1 1/4	1 1/4	9	2 5/8	6 1/2	227
F3 1140	4 Flg	5 Flg	6 3/8	9	8 1/2	7 1/16	7 1/16	7 3/4	—	12 9/16	—	—	4 3/4	4 13/16	—	1 3/8	9	2 5/8	6 1/2	282
F2 1215A	1 1/2 NPT	2 NPT	5/4	8	6 3/16	6 5/16	—	7 1/2	12 9/16	—	9 15/16	—	4 15/16	2 3/4	1 1/4	—	7 1/2	3	6 3/4	140
F2 1220A	2 NPT	2 1/2 Flg	5/4	8	6 3/16	6 5/16	—	7 7/8	11 11/16	—	8 7/8	—	4 1/16	2 3/4	1 1/4	—	7 3/4	2 5/8	6 3/16	140
F2 1230A	3 Flg	4 Flg	5/4	8	6 3/16	6 5/16	—	8 3/8	11 15/16	—	9 3/16	—	4 5/16	2 3/4	1 1/4	—	9	2 1/4	7 1/8	317
F2 1240A	4 Flg	5 Flg	5/4	8	6 3/16	6 5/16	—	9	12 1/16	—	9 7/16	—	4 9/16	2 3/4	1 1/4	—	9	2 1/16	7 1/2	332
F2 1250A	5 Flg	6 Flg	5/4	8	6 3/16	6 5/16	—	9 1/2	13 13/16	—	10 11/16	—	5 13/16	2 3/4	1 1/4	—	9 3/8	3 1/2	8	372
F4 1260A	6 Flg	8 Flg	6 3/8	9	8 1/2	7 1/16	—	10 3/4	13 23/64	—	—	—	7 3/4	4 13/16	1 3/8	—	12 1/8	4 3/8	8 3/4	346
F2 1260G	6 Flg	8 Flg	5/4	8	6 3/16	6 5/16	—	12 3/16	16 3/8	—	—	—	9	2 3/4	1 1/4	—	8 7/8	6 5/16	9 7/8	351
F3 1260G	6 Flg	8 Flg	6 3/8	9	8 1/2	7 1/16	—	12 3/16	16 9/16	—	—	—	9	4 13/16	1 3/8	—	8 7/8	6 5/16	9 7/8	378
F3 1425	2 1/2 Flg	4 Flg	6 3/8	9	8 1/2	7 1/16	—	8 5/8	12 5/16	—	9 1/2	—	5 1/2	4 13/16	1 7/8	—	8 5/8	2 7/8	7 3/4	279
F4 1425	2 1/2 Flg	4 Flg	6 3/8	9	8 1/2	7 1/16	—	8 5/8	12 5/16	—	—	—	5 1/2	4 13/16	1 7/8	—	8 5/8	2 7/8	7 3/4	279
F3 1430	3 Flg	4 Flg	6 3/8	9	8 1/2	7 1/16	—	9 1/8	12 5/16	—	9 1/2	—	5 1/2	4 13/16	1 7/8	—	8 5/8	2 7/8	8	286
F4 1430	3 Flg	4 Flg	6 3/8	9	8 1/2	7 1/16	—	9 1/8	12 5/16	—	—	—	5 1/2	4 13/16	1 7/8	—	8 5/8	2 7/8	8	286
F3 1440	4 Flg	5 Flg	6 3/8	9	8 1/2	7 1/16	—	9 5/8	12 5/16	—	9 1/2	—	5 1/2	4 13/16	1 7/8	—	10	2 3/16	8 1/2	292
F4 1440	4 Flg	5 Flg	6 3/8	9	8 1/2	7 1/16	—	9 5/8	12 5/16	—	—	—	5 1/2	4 13/16	1 7/8	—	10	2 3/16	8 1/2	292
F3 1660	6 Flg	8 Flg	6 3/8	9	8 1/2	7 1/16	—	13 3/8	12 3/4	—	—	—	7 1/8	4 13/16	1 7/8	—	14	3 1/16	10 5/8	537
F4 1660	6 Flg	8 Flg	6 3/8	9	8 1/2	7 1/16	—	13 3/8	12 3/4	—	—	—	7 1/8	4 13/16	1 7/8	—	14	3 1/16	10 5/8	537

NPT = American standard taper pipe thread.
 Flg = Discharge: 125 lb. ANSI; Suction: equivalent to 125 lb. ANSI.

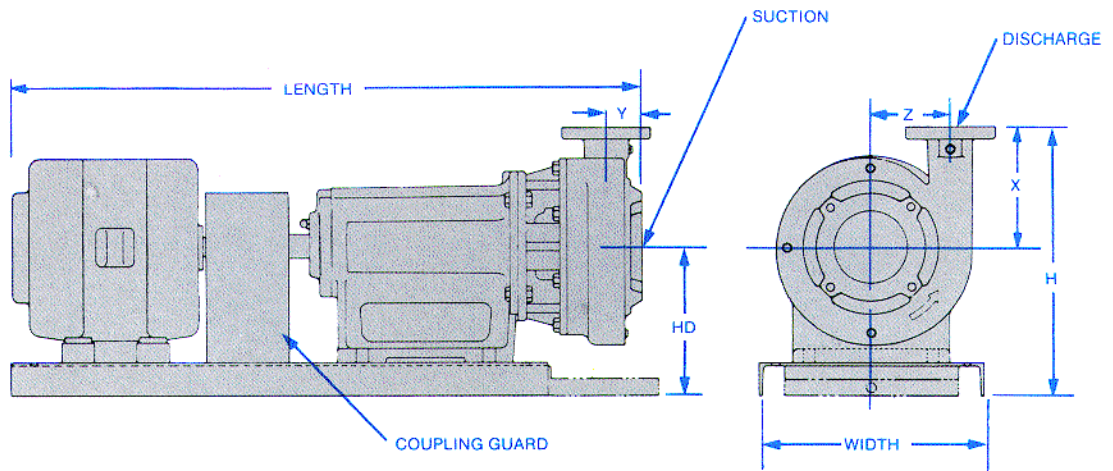
*KEYWAY DIMENSIONS

U Dia	Keyway
1 1/8	1/4 x 1/8 x 1 3/4
1 1/4	1/4 x 1/8 x 1 3/4
1 3/8	1/2 x 1/4 x 4

Pump models which include balance rings (one per pump)

3500 RPM:	F2 and C825AM and P	F2 1125M and P
	F2 and C830AM and P	F2 1140M and P, F3 1140P
1750 RPM:	F2 1140M and P	F3 and C1425M and P
	F2 and C1240AM and P	F3 and C1430M and P
	F2 and C1250AM and P	F3 and C1440M and P
	F4 1260AM and P	F3 and C1660M and P
	F2 1260GM and P	F3 1260GM and GP

Dimensions for Peerless Pump End Suction Series F Steel Base Mounted Pumps



F PUMP Unit DIMENSIONS IN INCHES

Pump Type	Disch.	Suct.	X	Y	Z	HD Max.	H Max.
610A	1 NPT	2 NPT	4 ³ / ₄	2 ⁵ / ₈	3 ³ / ₈	8 ³ / ₈	14 ¹ / ₄
615A,J	1 ¹ / ₂ NPT	2 NPT	5	2 ³ / ₄	3 ³ / ₈	8 ³ / ₈	14 ¹ / ₄
620A	2 NPT	2 ¹ / ₂ NPT	5 ³ / ₈	3 ¹ / ₄	3 ³ / ₈	9 ³ / ₄	16 ³ / ₄
740	4 Flg	5 Flg	7 ³ / ₈	2 ⁴¹ / ₆₄	5 ¹ / ₂	12 ¹ / ₈	19 ¹ / ₂
810A,G	1 NPT	2 NPT	5 ¹ / ₈	2 ³ / ₄	4 ³ / ₈	9 ³ / ₄	16 ³ / ₄
815,G	1 ¹ / ₂ NPT	2 NPT	5 ¹ / ₂	2 ³ / ₄	4 ¹ / ₂	11 ¹ / ₈	16 ³ / ₄
820A	2 NPT	2 ¹ / ₂ NPT	6	3 ³ / ₈	4 ⁵ / ₈	11 ¹ / ₈	19 ¹ / ₈
825A	2 ¹ / ₂ Flg	3 Flg	7 ¹ / ₄	2 ¹ / ₄	4 ⁷ / ₈	12 ¹ / ₈	21 ¹ / ₈
830A	3 Flg	4 Flg	7 ¹ / ₂	2 ¹ / ₈	5 ¹ / ₄	12 ¹ / ₈	21 ¹ / ₈
840	4 Flg	5 Flg	7 ³ / ₈	3	5 ⁵ / ₈	8 ³ / ₈	15 ³ / ₄
1020A	2 Flg	2 ¹ / ₂ Flg	7	2 ¹ / ₂	5 ⁵ / ₈	8 ³ / ₈	15 ³ / ₈
1025A	2 ¹ / ₂ Flg	3 Flg	7 ¹ / ₂	2 ¹ / ₄	5 ⁵ / ₈	8 ³ / ₈	15 ⁷ / ₈
1030A	3 Flg	4 Flg	7 ¹ / ₂	2 ¹ / ₈	6 ¹ / ₄	9 ³ / ₄	17 ¹ / ₄
1040A	4 Flg	5 Flg	8	2 ⁷ / ₈	7	9 ³ / ₄	17 ³ / ₄
1050A	5 Flg	6 Flg	9	3 ³ / ₁₆	7 ¹ / ₂	9 ³ / ₄	18 ³ / ₄
1125	2 ¹ / ₂ Flg	3 Flg	8 ¹ / ₁₆	2 ⁵ / ₁₆	6 ¹ / ₈	13 ¹ / ₈	21 ³ / ₁₆
1140	4 Flg	5 Flg	9	2 ⁵ / ₈	6 ¹ / ₂	16 ¹ / ₈	25 ¹ / ₈
1215A	1 ¹ / ₂ NPT	2 NPT	7 ¹ / ₂	3	6 ³ / ₄	9 ³ / ₄	17 ¹ / ₄
1220A	2 Flg	2 ¹ / ₂ Flg	7 ³ / ₄	2 ¹ / ₈	6 ¹³ / ₁₆	11 ¹ / ₈	19 ¹ / ₈
1230A	3 Flg	4 Flg	9	2 ¹ / ₄	7 ¹ / ₈	11 ¹ / ₈	20 ¹ / ₈
1240A	4 Flg	5 Flg	9	2 ⁷ / ₁₆	7 ¹ / ₂	12 ¹ / ₈	21 ¹ / ₈
1250A	5 Flg	6 Flg	9 ³ / ₈	3 ¹ / ₂	8	13 ¹ / ₈	22 ³ / ₄
1260A	6 Flg	8 Flg	12 ¹ / ₈	4 ¹ / ₈	8 ³ / ₄	17 ⁹ / ₁₆	29 ¹¹ / ₁₆
1260G	6 Flg	8 Flg	8 ³ / ₈	6 ⁵ / ₁₆	9 ⁷ / ₈	16 ¹ / ₁₆	25
1425	2 ¹ / ₂ Flg	4 Flg	8 ³ / ₈	2 ⁷ / ₈	7 ³ / ₄	11 ¹ / ₁₆	19 ³ / ₄
1430	3 Flg	4 Flg	8 ³ / ₈	2 ⁷ / ₈	8	12 ¹ / ₁₆	20 ³ / ₄
1440	4 Flg	5 Flg	10	2 ⁷ / ₈	8 ¹ / ₂	13 ¹ / ₁₆	23 ¹ / ₁₆
1660	6 Flg	8 Flg	14	3 ⁷ / ₁₆	10 ⁵ / ₈	17 ⁹ / ₁₆	31 ⁹ / ₁₆

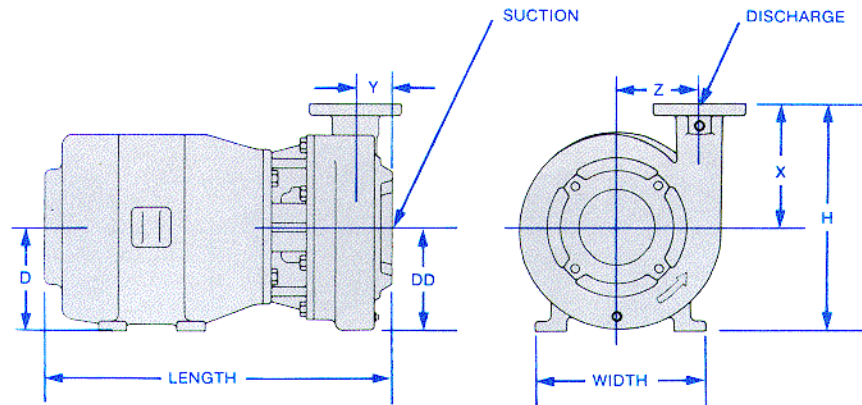
NPT = American standard taper pipe thread.
 Flg = Discharge: 125 lb. ANSI; Suction equivalent to 125 lb. ANSI.

MOTOR & PUMP DIMENSIONS*

Horsepower	Length Max.	Width Max.	Approx. Wt., Lbs.
1750 RPM			
1/3	36	9	190
1/2	37	9	190
3/4	36	9	190
1	37	9	190
1 1/2	37	9	205
2	36	9	255
3	37	10	260
5	40	10	325
7 1/2	42	11	380
10	43	11	425
15	46	13	525
20	48	13	590
25	51	15	690
30	52	15	750
40	53	17	900
50	55	17	960
60	60	19	990
75	63 3/4	19	1400
100	66 3/4	19	1440
125	68 1/4	19	1500
3500 RPM			
2	36	9	200
3	38	10	230
5	39	10	245
7 1/2	41	11	315
10	38	11	340
15	44	13	485
20	46	13	535
25	45	15	610
30	47	15	665
40	48	17	810
50	48	18	875
60	59	18	1067
75	60	18	1127
100	65	18	1350

*Largest pump size with listed motor.

Dimensions for Peerless Pump End Suction Series C Close Coupled Pumps



C PUMP UNIT DIMENSIONS IN INCHES

Pump Type	Disch.	Suct.	X	Y	Z	D Max.	DD	H*
610A	1 NPT	2 NPT	4 ³ / ₄	2 ⁵ / ₈	3 ³ / ₈	5 ¹ / ₄	4 ¹ / ₄	10
615A,J	1 ¹ / ₂ NPT	2 NPT	5	2 ³ / ₄	3 ³ / ₈	5 ¹ / ₄	4 ³ / ₈	10 ¹ / ₄
620A	2 NPT	2 ¹ / ₂ NPT	5 ³ / ₈	3 ¹ / ₄	3 ³ / ₈	5 ¹ / ₄	4 ¹ / ₂	10 ⁵ / ₈
740	4 Flg	5 Flg	7 ³ / ₈	2 ⁴¹ / ₆₄	5 ¹ / ₂	8	7 ¹ / ₄	15 ³ / ₈
810A,G	1 NPT	2 NPT	5 ¹ / ₈	2 ³ / ₄	4 ³ / ₈	6 ¹ / ₄	5 ¹ / ₄	11 ³ / ₈
815,G	1 ¹ / ₂ NPT	2 NPT	5 ¹ / ₂	2 ³ / ₄	4 ¹ / ₂	7	5 ³ / ₈	12 ¹ / ₂
820A	2 NPT	2 ¹ / ₂ NPT	6	3 ³ / ₈	4 ⁵ / ₈	7	5 ¹ / ₂	13
825A	2 ¹ / ₂ Flg	3 Flg	7 ¹ / ₄	2 ¹ / ₄	4 ⁷ / ₈	8	5 ³ / ₄	15 ¹ / ₄
830A	3 Flg	4 Flg	7 ¹ / ₂	2 ¹ / ₈	5 ¹ / ₄	8	6 ¹ / ₂	15 ¹ / ₂
840	4 Flg	5 Flg	7 ³ / ₈	3	5 ³ / ₈	5 ¹ / ₄	7 ¹ / ₄	14 ⁵ / ₈
1020A	2 Flg	2 ¹ / ₂ Flg	7	2 ¹ / ₂	5 ³ / ₈	5 ¹ / ₄	6 ³ / ₈	13 ³ / ₈
1025A	2 ¹ / ₂ Flg	3 Flg	7 ¹ / ₂	2 ¹ / ₄	5 ³ / ₈	5 ¹ / ₄	7	14 ¹ / ₂
1030A	3 Flg	4 Flg	7 ¹ / ₂	2 ¹ / ₈	6 ¹ / ₄	6 ¹ / ₄	7 ¹ / ₂	15
1040A	4 Flg	5 Flg	8	2 ¹ / ₈	7	6 ¹ / ₄	8 ¹ / ₈	16 ¹ / ₈
1050A	5 Flg	6 Flg	9	3 ¹ / ₄	7 ¹ / ₈	6 ¹ / ₄	8 ³ / ₄	17 ³ / ₄
1125	2 ¹ / ₂ Flg	3 Flg	8 ¹ / ₁₆	2 ⁵ / ₁₆	6 ¹ / ₈	8	7 ¹ / ₈	16 ¹ / ₁₆
1140	4 Flg	5 Flg	9	2 ⁵ / ₈	6 ¹ / ₂	8	7 ³ / ₄	17
1215A	1 ¹ / ₂ NPT	2 NPT	7 ¹ / ₂	3	6 ³ / ₄	6 ¹ / ₄	7 ¹ / ₂	15
1220A	2 Flg	2 ¹ / ₂ Flg	7 ³ / ₄	2 ¹ / ₈	6 ¹³ / ₁₆	7	7 ⁷ / ₈	15 ⁵ / ₈
1230A	3 Flg	4 Flg	9	2 ¹ / ₄	7 ¹ / ₂	7	8 ³ / ₈	17 ³ / ₈
1240A	4 Flg	5 Flg	9	2 ⁷ / ₁₆	7 ¹ / ₂	8	9	18
1250A	5 Flg	6 Flg	9 ³ / ₈	3 ¹ / ₂	8	8	9 ³ / ₄	19 ¹ / ₈
1260G	6 Flg	8 Flg	8 ⁷ / ₈	6 ⁵ / ₁₆	9 ³ / ₈	9	13 ¹ / ₁₆	21 ¹⁵ / ₁₆
1425	2 ¹ / ₂ Flg	4 Flg	8 ⁵ / ₈	2 ³ / ₈	7 ³ / ₄	7	8 ¹ / ₂	17 ³ / ₈
1430	3 Flg	4 Flg	8 ³ / ₈	2 ³ / ₈	8	8	9	17 ⁵ / ₈
1440	4 Flg	5 Flg	10	2 ³ / ₈	8 ¹ / ₂	9	9 ¹ / ₂	19 ¹ / ₂

*Maximum pump height (H) includes height from centerline through shaft to bottom of motor or bottom of volute, whichever is greater. Thus . . .

for Models C610A-C830A, H = X + D

for Models C840-C1440A, H = X + DD

NPT = American standard taper pipe thread.

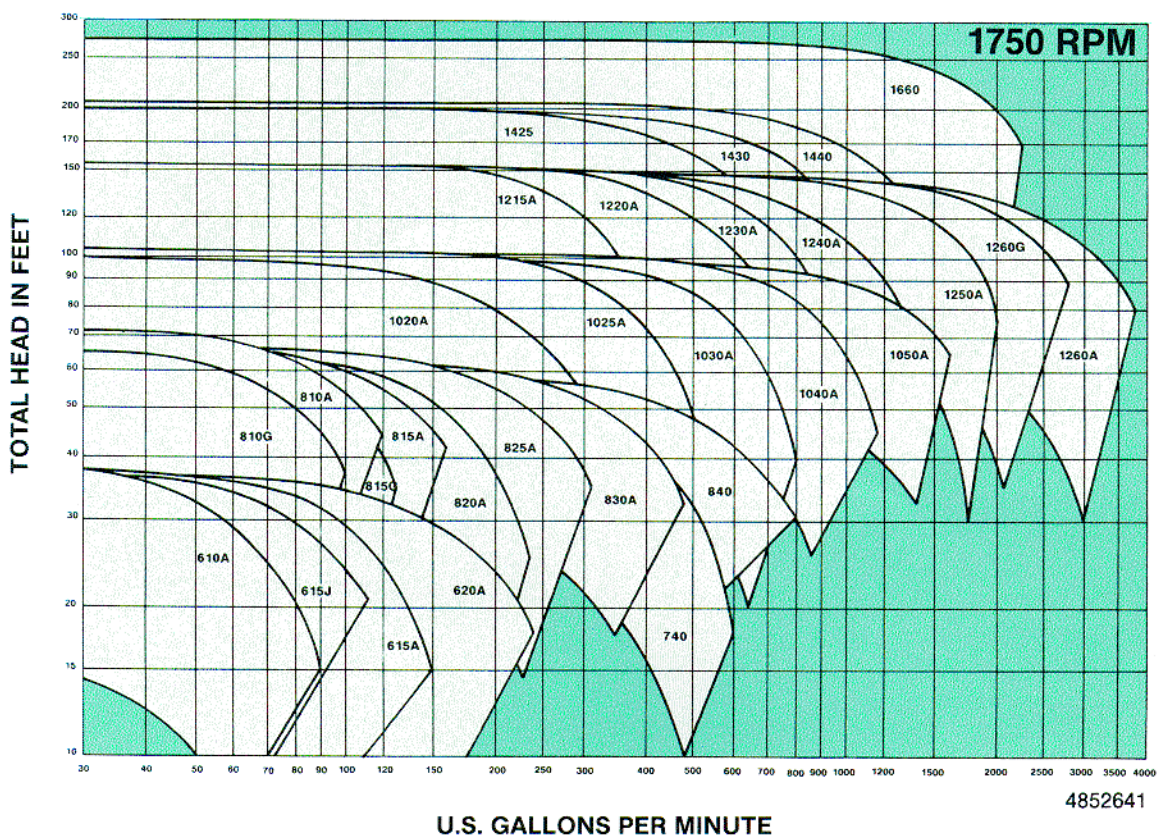
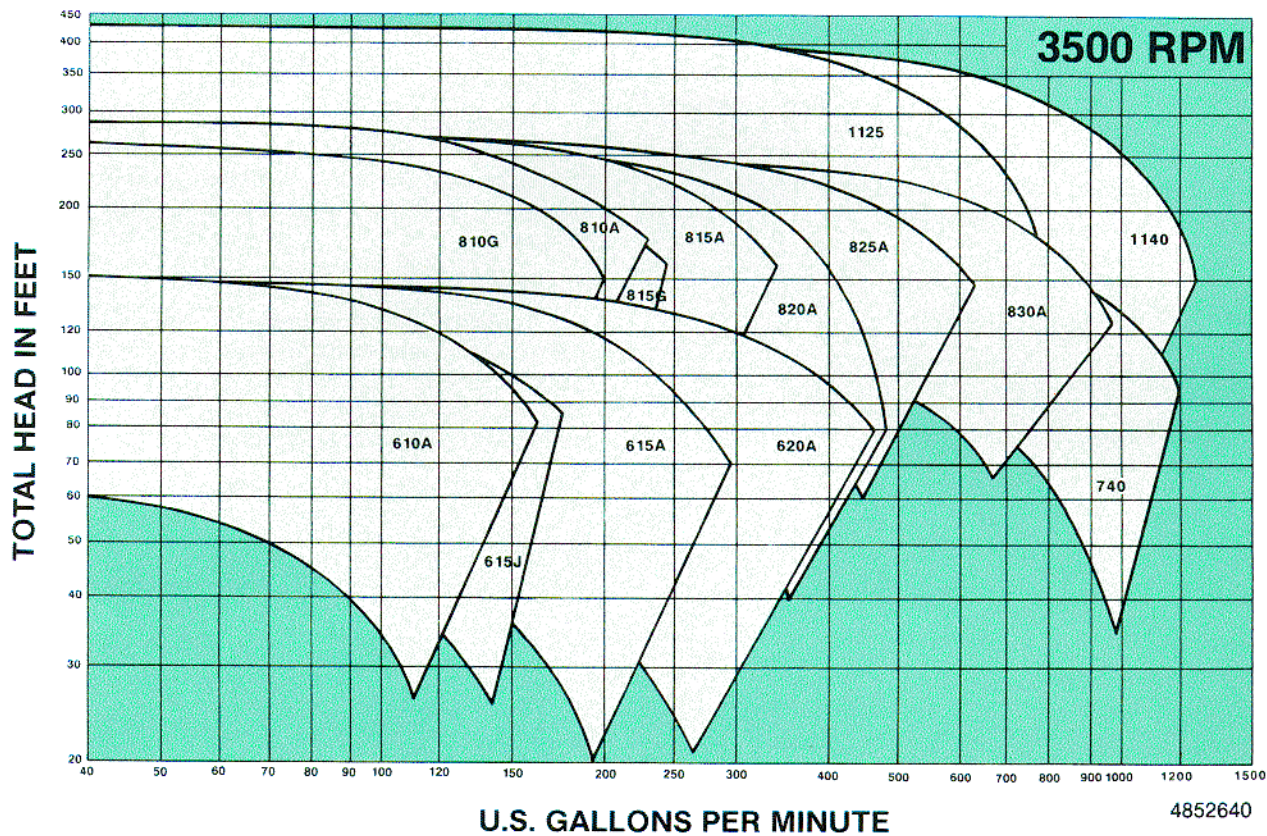
Flg = Discharge: 125 lb. ANSI; Suction: equivalent to 125 lb. ANSI

MOTOR & PUMP DIMENSIONS*

Horse-power	Length Max.	Width Max.	Approx. Wt., Lbs.
1750 RPM			
1	21	9	100
1 ¹ / ₂	22	9	105
2	22	14	166
3	24	14	191
5	24	16	228
7 ¹ / ₂	27	16	256
10	28	16	306
15	31	17	377
20	33	18	476
25	33	18	508
30	35	20	589
40	36	20	734
50	38	20	799
60	38	20	812
3500 RPM			
2	21	9	103
3	24	10	130
5	24	11	165
7 ¹ / ₂	27	11	235
10	29	11	265
15	31	13	365
20	33	13	435
25	33	14	452
30	34	14	515
40	35	16	640
50	37	16	705
60	39	18	640
75	41	18	731
100	44	18	791

*Largest pump size used with listed motor.

Performance Characteristics



Peerless Pump Series C & F Pumps

Mechanical Seals

Style M pumps are equipped with unbalanced mechanical seals. Each seal has Ni-Resist seat, carbon washer, Buna rubber flexible members, 18-8 stainless steel spring and 18-8 stainless steel metal parts—maximum temperature is 225°F. (Optional seals for up to 250°F. are available.)

Shaft

Rigid shaft design limits maximum shaft deflection at the seal to 0.002". With 0.002" or less shaft deflection, long mechanical seal or packing life can be expected.

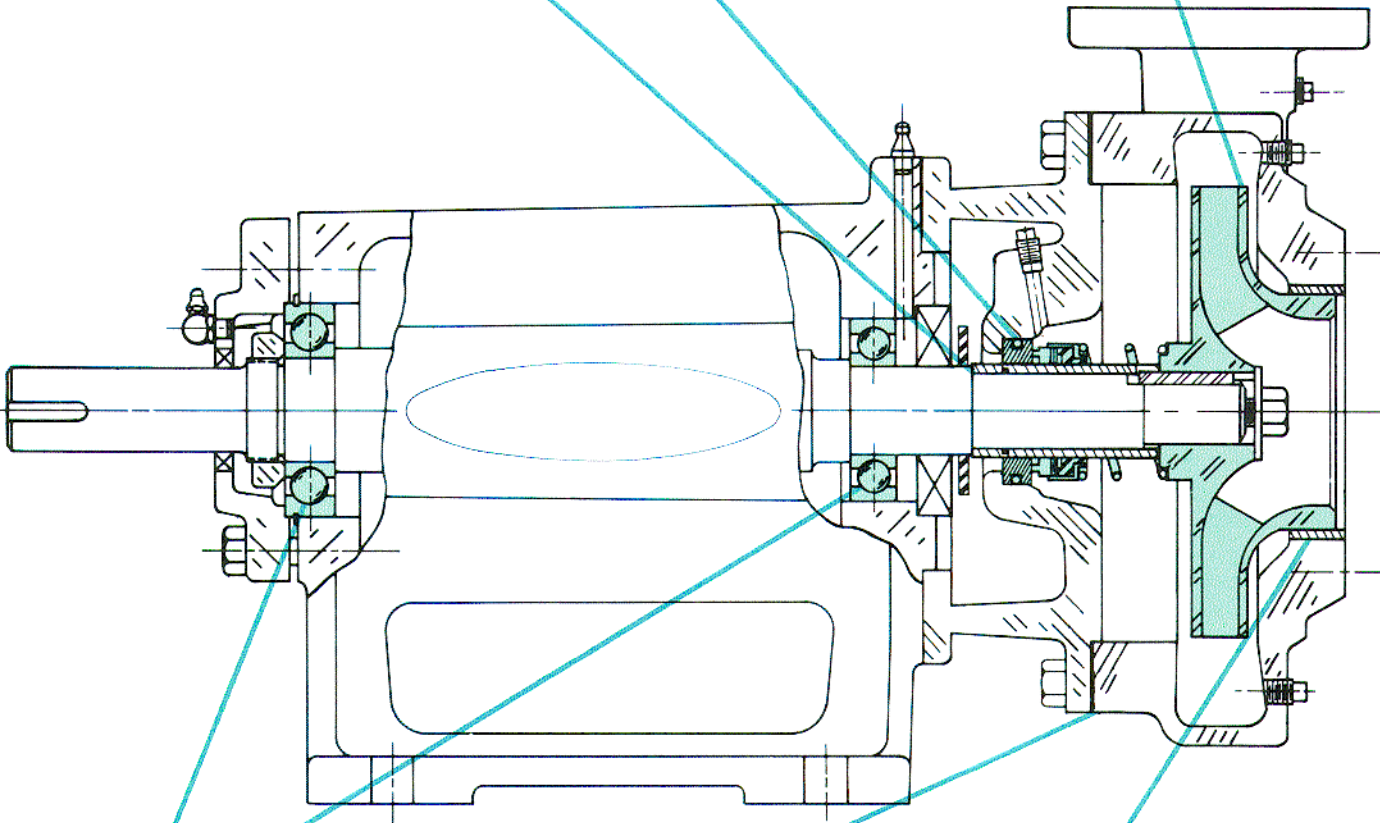
JM/JP Shaft Extensions

Each Series C pump is designed to use a standard HI-NEMA type JM or type JP motor.

The bearing frames of Series F pumps have adapter registers and shaft extensions which match those of corresponding JM and JP motors. Adapter and liquid end parts are interchangeable with those of Series C pumps.

Enclosed Impeller

Impellers are enclosed for maximum efficiency. Hydraulically balanced impellers are furnished on many sizes to reduce axial thrust and increase bearing life. Each impeller is precisely fitted to its shaft and is double locked with a key and a cap screw.



Bearings

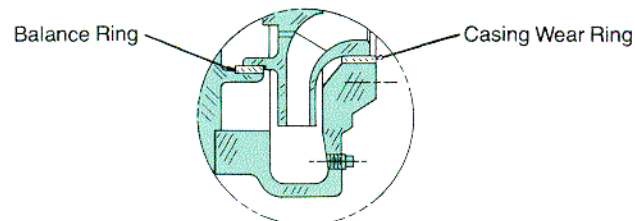
Ball bearings are sized for a minimum B-10 life of 20,000 hours, equivalent to an average bearing life of 100,000 hours. Bearings furnished on F pumps are re-greaseable.

Vertical Split Casing Design

Casing is close grained cast iron. Back pullout design, on most sizes, eliminates the need to disturb the piping when servicing the pump. Casings can be indexed to any of 8 positions and are equipped with vent and drain openings. Adapter register also mates with NEMA C-face motors.

Replaceable Wearing Rings

Casing is close grained cast iron. Casings can be indexed to any of 8 positions and are equipped with vent and drain openings. Adapter register also mates with NEMA C-face motors.



Peerless Pump General Purpose End Suction Pumps

General purpose end suction centrifugal pumps, Peerless Pump Series F and C pumps, are available in cast iron bronze fitted and in all iron construction. Packed or mechanical shaft seals designed for temperature ranges up to 250°F are available. Concentricities of mating parts, such as casings, adapters and frames, are obtained by close tolerance registers. Impellers are single-plane balanced, assuring long and continuous operation of the pump.

Modern foundry technology using shell moldings, permanent mold and shell cores for casing and impeller castings assures smooth water passages, good weight symmetry and part density. To the user this means efficiency, reliability and long life.

Series F and C pumps have low hydraulic noise levels. This is achieved by good hydraulic design and by providing 10% clearance between the maximum impeller diameter and the casing cutwater. Low hydraulic noise level, high efficiency and long life are designed and built into each Series F and C pump.

Peerless Pump Series F Pumps

Series F pumps are frame mounted end suction centrifugal pumps flexibly coupled to motor drivers and equipped with coupling guards. Each entire unit is mounted on a steel base with optional drip pan.

Casings, bearing frames and adapters all share mating registers. Adapter designs are available for use with stuffing box packings or with mechanical seals.

Series F pumps are furnished with rubber sleeve type flexible couplings for smooth operation.

Peerless Pump Series C Pumps

Series C pumps are end suction centrifugal pumps close coupled to standard Hydraulic Institute-NEMA C-face JM or JP motors. Motors and pump casings are connected by adapters which register to both casing and motor faces. Adapter designs are available for use with stuffing box packings or with mechanical seals.

Parts Interchangeability

Component parts common to Series F and C pumps have a high degree of interchangeability. These major parts are interchangeable between similar sizes in Series F and Series C pumps:

Casings	Mechanical seals	Casing wear rings	Impellers
Adapters	Shaft sleeves	Stuffing box glands	

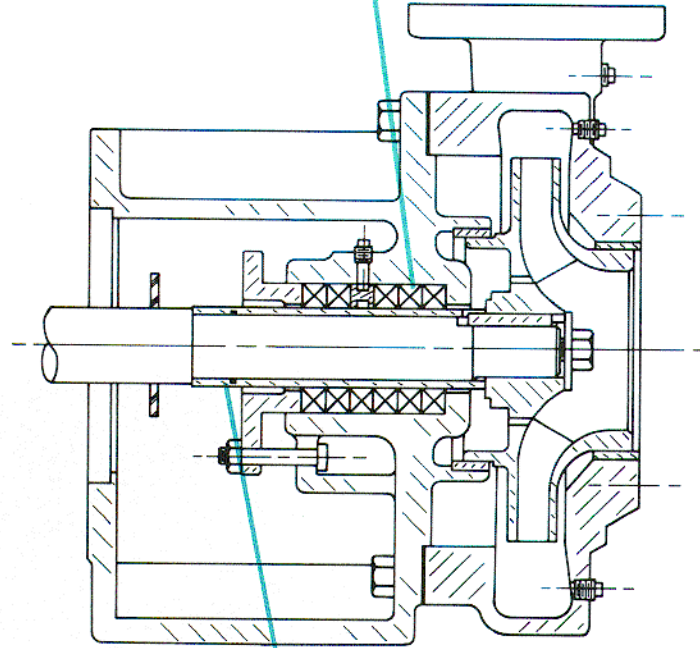
This interchangeability will result in smaller parts inventories and lower inventory costs for multiple pump installations.

Maximum Working Pressures

Maximum Working Pressures	Liquid Temperatures	
	Bronze Fitted	All Iron
175 PSIG	0°F-150°F	0°F-150°F
165 PSIG	151°F-200°F	151°F-200°F
155 PSIG	201°F-250°F	201°F-250°F

Packing

Each Style P pump uses a minimum of five rows of packing. An optional lantern ring is available for pumps in suction lift applications.



Style P, packed pumps

Gasketed shaft sleeve

Gasketed bronze shaft sleeves on F and C pumps protect their shafts against corrosion and wear. All-iron pumps are equipped with stainless steel shaft sleeves.

Rotation

Clockwise when viewed from driver end.

Standard Materials of Construction

Parts	Bronze Fitted	All Iron
Case and adapter	Cast iron	Cast iron
Casing ring	Bronze	Steel
Impeller	Bronze	Cast iron
Shaft sleeve	Bronze	416 Stainless steel
Lantern ring	Bronze*	Cast iron*

* May be glass filled TFE, Peerless option.

Typical Specifications

The following pump specifications include cast iron bronze fitted materials and all iron materials of construction. *All iron construction materials are printed in italics.* Select appropriate specification wording for desired construction materials.

BASE MOUNTED

Pump shall be Peerless Pump (Series F) end suction, vertically split case centrifugal type capable of delivering _____ gpm at a total head of _____ feet with an efficiency of not less than _____ % at the specified condition. Pumped liquid will be _____ at a temperature of _____ °F with a specific gravity of _____.

Pump casing shall be cast iron with smooth water passages and fitted with a (bronze) (*steel*) replaceable wearing ring. Maximum casing working pressure shall be _____ PSIG.

The impeller supplied for the specified conditions shall be one piece (bronze) (*iron*) casting of a diameter not greater than 90% of the casing cutwater diameter.

Pump shaft shall be carbon steel of a size and design to limit shaft deflection at the stuffing box to no more than .002 inches.

Sealing of the pump liquid cavity shall be accomplished with:

Packed Pumps, Bronze Fitted A minimum of five rows of braided, graphited packing and bronze shaft sleeve.

Packed Pumps, All Iron *A minimum of five rows of braided, graphited packing and 416 stainless steel shaft sleeve.*

Mechanical Seal Pumps, Bronze Fitted *A face type mechanical seal with Ni-Resist stationary seat, carbon washer, Buna rubber flexible members, 18-8 stainless steel spring and metal parts. Seal shall be mounted over a bronze shaft sleeve.*

Mechanical Seal Pumps, All Iron *A face type mechanical seal with Ni-Resist stationary seat, carbon washer, Buna flexible members and 18-8 stainless steel spring and metal parts. Seal shall be mounted over a 416 stainless steel shaft sleeve.*

Pump shall be flexibly coupled to a NEMA frame (ODP) (TEFC) (Explosion Proof) electric motor rated _____ hp, _____ rpm, _____ volt, _____ ph, _____ Hz. Motor and pump bearings shall be regreaseable and sized for a minimum of 20,000 hours L₁₀ basic rating life which is equivalent to 100,000 hours median bearing life. Motor and pump shall be aligned and mounted on a (steel base) (steel base with drip pan). A coupling guard shall be provided.

CLOSE COUPLED

Pump shall be Peerless Pump (Series C) end suction, vertically split case centrifugal type capable of delivering _____ gpm at a total head of _____ feet with an efficiency of not less than _____ % at the specified condition. Pumped liquid will be _____ at a temperature of _____ °F with a specific gravity of _____.

Pump casing shall be cast iron with smooth water passages and fitted with a (bronze) (*steel*) replaceable wearing ring. Maximum casing working pressure shall be _____ PSIG.

The impeller supplied for the specified conditions shall be one piece (bronze) (*iron*) casting of a diameter not greater than 90% of the casing cutwater diameter.

Sealing of the pump liquid cavity shall be accomplished with:

Packed Pumps, Bronze Fitted A minimum of five rows of braided, graphited packing and bronze shaft sleeve.

Packed Pumps, All Iron *A minimum of five rows of braided, graphited packing and 416 stainless steel shaft sleeve.*

Mechanical Seal Pumps, Bronze Fitted *A face type mechanical seal with Ni-Resist stationary seat, carbon washer, Buna rubber flexible members, 18-8 stainless steel spring and metal parts. Seal shall be mounted over a bronze shaft sleeve.*

Mechanical Seal Pumps, All Iron *A face type mechanical seal with Ni-Resist stationary seat, carbon washer, Buna flexible members and 18-8 stainless steel spring and metal parts. Seal shall be mounted over a 416 stainless steel shaft sleeve.*

Pump shall be close coupled to a HI/NEMA frame (ODP) (TEFC) (Explosion Proof) electric motor rated _____ hp, _____ rpm, _____ volt, _____ ph, _____ Hz. Motor shaft shall be carbon steel and of a size and design to limit shaft deflection at the stuffing box to no more than .002 inches. Motor bearing shall be regreaseable and sized for a minimum of 20,000 hours L₁₀ basic rating life which is equivalent to 100,000 hours median bearing life.



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