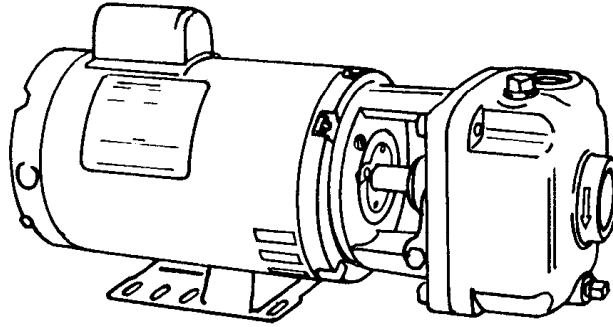


Close Coupled Turbine Pumps



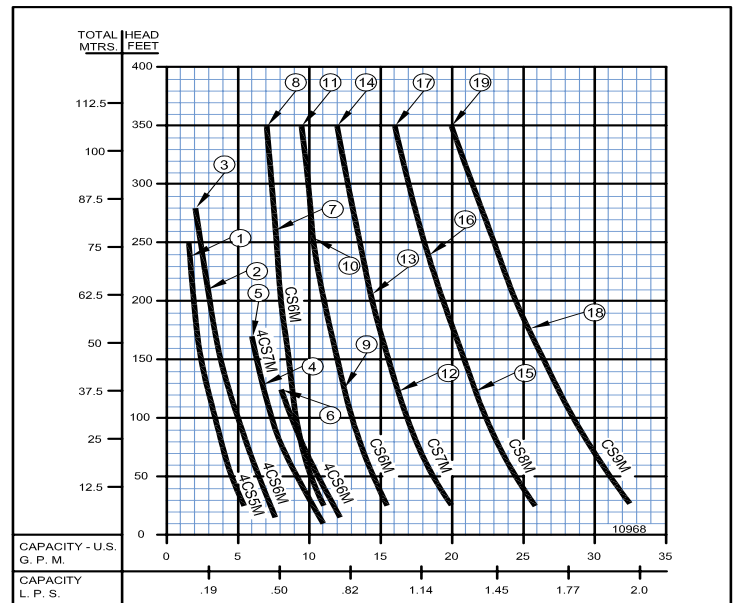
4CS - 1725 RPM - 60Hz.

CS - 3450 RPM - 60Hz.

(See Individual curves for symbol number)

Symbol Number	HP	*MAXIMUM HEAD	
		Catalog Number	
		1 - Phase	3 - Phase
1	1/3	34CS5M	334CS5M
2	1/3	34CS6M	334CS6M
3	1/2	54CS6M	354CS6M
4	1/3	34CS7M	334CS7M
5	1/2	54CS7M	354CS7M
6	1/2	54CS8M	354CS8M
7	1	10CS5M	310CS5M
8	1 1/2	15CS5M	315CS5M
9	1	10CS6M	310CS6M
10	1 1/2	15CS6M	315CS6M
11	2	20CS6M	320CS6M
12	1 1/2	15CS7M	315CS7M
13	2	20CS7M	320CS7M
14	3	----	330CS7M
15	2	20CS8M	320CS8M
16	3	----	330CS8M
17	5	----	350CS8M
18	3	----	330CS9M
19	5	----	350CS9M

(*) For Standard Pumps with ODP motors

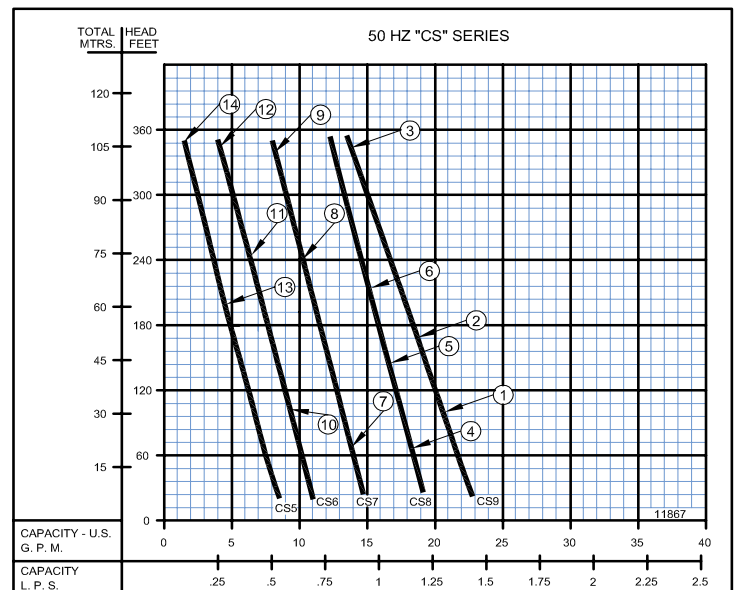


CS - 2900 RPM - 50Hz.

(See Individual curves for symbol number)

Symbol Number	HP	MAXIMUM HEAD
		Catalog Number
* 1	2.0	L320CS9M
2	2.6	L330CS9M
3	4.0	L340CS9M
4	1.5	L315CS8M
* 5	2.0	L320CS8M
6	2.6	L330CS8M
7	1.5	L315CS7M
* 8	2.0	L320CS7M
9	2.6	L330CS7M
10	1.0	L310CS6M
11	1.5	L315CS6M
* 12	2.0	L320CS6M
13	1.0	L310CS5M
14	1.0	L315CS5M

(*) Pump numbers 1, 5, 8 & 12 are the only pump available in single phase 115/230 volt. All of the pumps above are available with stuffing box.



Close Coupled Turbine Pumps

60 HZ - PERFORMANCE & SELECTION CHART																				
Catalog Number		HP	Tappings		PSI Feet	TOTAL HEAD														
			Suct. NPT	Disc. NPT		8.6 20	17.2 40	26 60	43.3 100	54.1 125	64.9 150	75.8 175	86.6 200	97.4 225	108.3 250	119.1 275	130 300	140.1 325	151.6 350	
1 Phase	3 Phase	CAPACITY IN GPM																		
1750 RPM	34CS5M	334CS5M	1/3	1 1/4	1	5.8	4.9	4.3	3.3	2.8	2.4	2.1	1.8	1.6						
	34CS6M	334CS6M	1/3			7.8	6.9	6.3	5.2	4.6	4.1	3.7	3.3							
	54CS6M	354CS6M	1/2			7.8	6.9	6.3	5.2	4.6	4.1	3.7	3.3	2.9	2.6	2.3				
	34CS7M	334CS7M	1/3			10.4	9.4	8.5	7.2	6.5	5.9	5.4								
	54CS7M	354CS7M	1/2			10.4	9.4	8.5	7.2	6.5	5.9	5.4								
	54CS8M	354CS8M	1/2			12.2	11.3	10.4	9.0	8.2										
3450 RPM	10CS5M	310CS5M	1	1 1/4	1	11	10.6	10.1	9.3	9	8.5	8.2	8	7.7						
	15CS5M	315CS5M	1 1/2			11	10.6	10.1	9.3	9	8.5	8.2	8	7.7	7.5	7.4	7.2	7.1		
	10CS6M	310CS6M	1			16	15.2	14.5	13.5	12.8										
	15CS6M	315CS6M	1 1/2			16	15.2	14.5	13.5	12.8	12.4	12	11.5	11	10.7					
	20CS6M	320CS6M	2			16	15.2	14.5	13.5	12.8	12.4	12	11.5	11	10.7	10.5	10.1	9.7	9.5	
	15CS7M	315CS7M	1 1/2			20.5	19.6	19.5	17.3											
	20CS7M	320CS7M	2			20.5	19.6	19.5	17.3	16.5	16	15.3	14.7							
	----	330CS7M	3			20.5	19.6	19.5	17.3	16.5	16	15.3	14.7	14.2	13.7	13.3	12.8	12.5	12	
	20CS8M	320CS8M	2			26.5	25.5	24.6	23	22										
	----	330CS8M	3			26.5	25.5	24.6	23	22	21.3	20.5	19.8	19.2						
----	350CS8M	5	26.5	25.5	24.6	23	22	21.3	20.5	19.8	19.2	18.5	18	17.4	16.8	16.3				
----	330CS9M	3	32.5	31.5	30.5	28.6	27.5	26.5												
----	350CS9M	5	32.5	31.5	30.5	28.6	27.5	26.5	25.6	24.7	23.8	23	22.2	21.5	20.7	20				

60 HZ - PERFORMANCE & SELECTION CHART																				
Catalog Number		HP	Tappings		kPa Meters	TOTAL HEAD														
			Suct. NPT (in)	Disc. NPT (in)		59 6.1	119 12.1	179 18.2	299 30.5	373 38.1	447 45.7	523 53.3	597 61	672 68.6	747 76.2	821 83.8	896 91.4	966 99.1	1045 106.6	
1 Phase	3 Phase	CAPACITY IN LPS																		
1750 RPM	34CS5M	334CS5M	1/3	1 1/4	1	0.36	0.30	0.27	0.20	0.17	0.15	0.13	0.11	1.6						
	34CS6M	334CS6M	1/3			0.49	0.43	0.39	0.32	0.29	0.25	0.23	0.20							
	54CS6M	354CS6M	1/2			0.49	0.43	0.39	0.32	0.29	0.25	0.23	0.20	0.18	0.16	0.14				
	34CS7M	334CS7M	1/3			0.65	0.59	0.53	0.45	0.41										
	54CS7M	354CS7M	1/2			0.65	0.59	0.53	0.45	0.41	0.37	0.34								
	54CS8M	354CS8M	1/2			0.76	0.71	0.65	0.56	0.51										
3450 RPM	10CS5M	310CS5M	1	1 1/4	1	0.69	0.66	0.63	0.58	0.56	0.53	0.51	0.50	0.48						
	15CS5M	315CS5M	1 1/2			0.69	0.66	0.63	0.58	0.56	0.53	0.51	0.50	0.48	0.47	0.46	0.45	0.44		
	10CS6M	310CS6M	1			1.00	0.95	0.91	0.85	0.80										
	15CS6M	315CS6M	1 1/2			1.00	0.95	0.91	0.85	0.80	0.78	0.75	0.72	0.69	0.67					
	20CS6M	320CS6M	2			1.00	0.95	0.91	0.85	0.80	0.78	0.75	0.72	0.69	0.67	0.66	0.63	0.61	0.59	
	15CS7M	315CS7M	1 1/2			1.29	1.24	1.23	1.09											
	20CS7M	320CS7M	2			1.29	1.24	1.23	1.09	1.04	1.00	0.96	0.92							
	----	330CS7M	3			1.29	1.24	1.23	1.09	1.04	1.00	0.96	0.92	0.89	0.86	0.83	0.80	0.78	0.75	
	20CS8M	320CS8M	2			1.67	1.60	1.55	1.45	1.38										
	----	330CS8M	3			1.67	1.60	1.55	1.45	1.38	1.34	1.29	1.24	1.21						
----	350CS8M	5	1.67	1.60	1.55	1.45	1.38	1.34	1.29	1.24	1.21	1.16	1.13	1.09	1.05	1.02				
----	330CS9M	3	2.05	1.98	1.92	1.80	1.73	1.67												
----	350CS9M	5	2.05	1.98	1.92	1.80	1.73	1.67	1.61	1.55	1.50	1.45	1.40	1.35	1.30	1.26				

NOTE: When pumping hot water over 180°F (82.2°C), check the NPSH available in the pumping system against the required pump NPSH shown on pump performance curves. Available NPSH must be greater than required NPSH.