

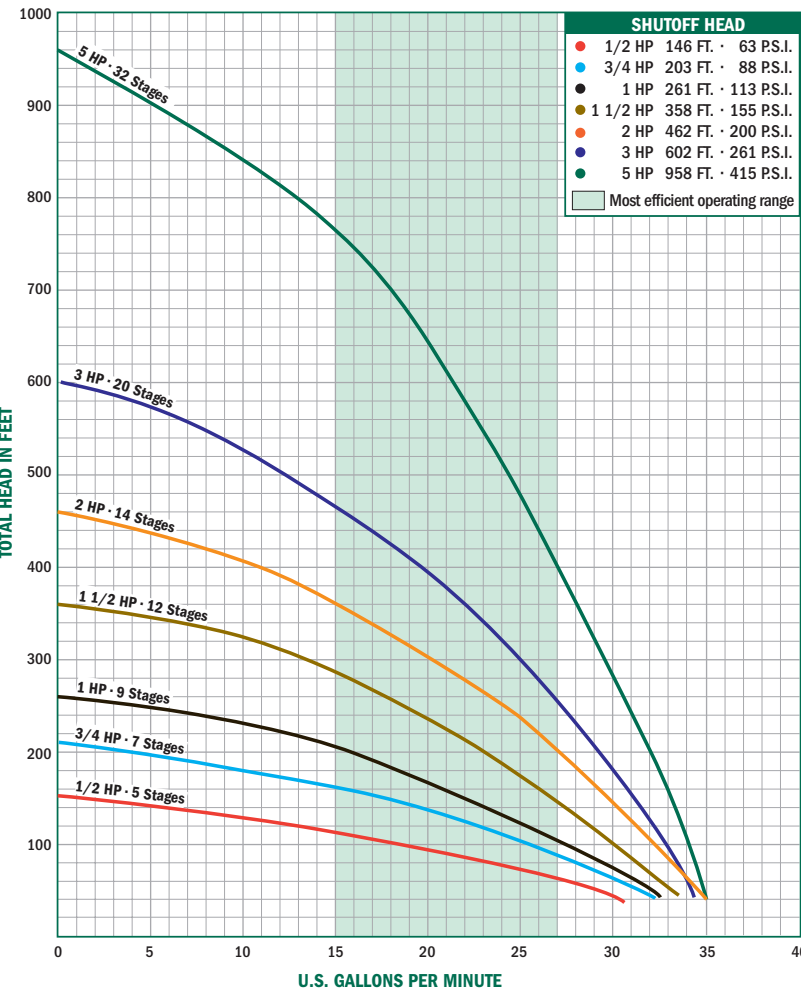
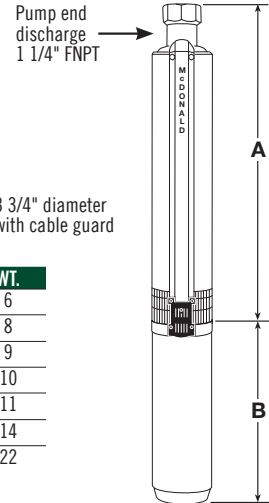
# SUBMITTAL DATA SHEET

## 23000 Series 4" No-Lead Domestic Stainless Steel Submersible Pumps P - 20 GPM



A.Y. McDonald offers a full line of stainless steel submersible pumps built for years of trouble free operation, with high-efficiency impellers and diffusers. These submersibles offer peak capacity performance in 5, 7, 10, 15, 20, and 25 gallons per minute (GPM). Other features include stainless steel discharge head with a built-in check valve, and stainless steel shaft and coupling.

All Stainless Steel Pumps come with a 1 1/4" discharge and sizes range from 1/2 to 5 horsepower (HP). Two wire models up to 1 1/2 and three wire models up to 5 horsepower (HP).



### 4" Stainless Steel Pump Ends

Part No.	Model No.	HP	WT.
6650-197	23050P	1/2	6
6650-204	23075P	3/4	8
6650-208	23100P	1	9
6650-212	23150P	1 1/2	10
6650-216	23200P	2	11
6650-219	23300P	3	14
6650-222	23500P	5	22

### Two Wire Single Phase

Part No.	Model No.	HP	Stages	Volt	A	B	WT.
6650-199	23050P2A	1/2	5	115	12.02"	13.4"	25
6650-198	23050P2	1/2	5	230	12.02"	13.0"	27
6650-205	23075P2	3/4	7	230	14.17"	13.8"	28
6650-209	23100P2	1	9	230	16.32"	16.8"	38
6650-213	23150P2	1 1/2	12	230	19.54"	18.5"	41

### Three Wire\*\* Single Phase

Part No.	Model No.	HP	Stages	Volt	A	B	WT.
6650-201	23050P3A	1/2	5	115	12.02"	9.5"	27
6650-200	23050P3	1/2	5	230	12.02"	10.5"	27
6650-206	23075P3	3/4	7	230	14.17"	11.3"	30
6650-210	23100P3	1	9	230	16.32"	13.6"	34
6650-214	23150P3	1 1/2	12	230	19.54"	16.2"	43
6650-217	23200P3	2	14	230	21.69"	16.2"	49
6650-220	23300P3	3	20	230	29.50"	21.4"	63
6650-223	23500P3	5	32	230	42.38"	26.9"	99

### Three Wire Three Phase

Part No.	Model No.	HP	Stages	Volt	A	B	WT.
6650-302	23150P3Z	1 1/2	12	230	19.5"	13.6"	40
6622-139	23200P3Z	2	14	230	21.7"	15.4"	45
6622-140	23300P3Z	3	20	230	29.5"	19.8"	53
6650-226	23500P3Z	5	32	230	42.4"	24.2"	78
6650-225	23500P3Y	5	32	460	42.4"	24.2"	76

\*\* All three wire pumps are available in three phase by selecting pump end and appropriate motor and starter kit.

**NO-LEAD:** The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



**A.Y. McDonald Mfg. Co.**  
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**Submitted by:**

# SUBMITTAL DATA SHEET

23000 Series  
 4" No-Lead Domestic Stainless Steel Submersible Pumps  
**P - 20 GPM**



## Output - in Gallons Per Minute (Depth to Water)

1/2 HP	PSI	25'	50'	75'	100'	125'
0		32.34	28.61	24.35	19.26	12.48
30		20.53	14.28	2.68		
40		14.83	4.36			
50		5.68				

3/4 HP	PSI	25'	50'	75'	100'	125'	150'	175'	200'
0		32.36	29.82	27.06	24.01	20.58	16.54	11.39	2.53
30		24.74	21.40	17.53	12.71	5.44			
40		21.67	17.85	13.13	6.20				
50		18.16	13.54	6.91					
60		13.93	7.56						

1 HP	PSI	25'	50'	75'	100'	125'	150'	175'	200'	225'	250'
0		33.30	31.39	29.36	27.19	24.84	22.26	19.37	16.02	11.88	5.72
30		27.70	25.39	22.87	20.06	16.84	12.92	7.49			
40		25.57	23.07	20.29	17.10	13.26	8.01				
50		23.27	20.51	17.36	13.58	8.50					
60		20.73	17.62	13.90	8.97						

1 1/2 HP	PSI	50'	100'	150'	200'	250'	300'	350'
0		32.95	29.95	26.64	22.90	18.50	12.88	3.03
30		28.71	25.26	21.30	16.53	10.04		
40		27.17	23.50	19.23	13.86	5.38		
50		25.53	21.62	16.93	10.65			
60		23.80	19.58	14.33	6.32			

2 HP	PSI	50'	100'	150'	200'	250'	300'	350'	400'
0		34.88	32.45	29.85	27.04	23.94	20.46	16.41	11.33
30		31.47	28.79	25.88	22.65	18.98	14.61	8.85	
40		30.26	27.48	24.43	21.02	17.07	12.20	5.06	
50		29.00	26.11	22.91	19.28	14.97	9.38		
60		27.70	24.68	21.30	17.40	12.62	5.79		

3 HP	PSI	50'	100'	150'	200'	250'	300'	350'	400'	450'	500'	550'
0		34.31	32.64	30.88	29.03	27.05	24.92	22.61	20.06	17.16	13.72	9.23
30		31.97	30.18	28.28	26.25	24.06	21.66	18.99	15.91	12.16	6.88	
40		31.15	29.31	27.36	25.26	22.98	20.47	17.63	14.29	10.02	2.58	
50		30.32	28.43	26.41	24.23	21.85	19.20	16.16	12.48	7.39		
60		29.46	27.51	25.42	23.16	20.67	17.86	14.57	10.40	3.55		

5 HP	PSI	50'	100'	150'	200'	250'	300'	350'	400'	450'	500'	550'	600'	650'	700'	750'	800'	850'	900'	950'
0		35.14	34.10	33.04	31.94	30.80	29.62	28.40	27.12	25.79	24.38	22.90	21.32	19.62	17.78	15.74	13.43	10.69	7.15	.01
30		33.70	32.62	31.50	30.35	29.16	27.91	26.61	25.25	23.82	22.30	20.68	18.93	17.02	14.88	12.43	9.46	5.32		
40		33.20	32.11	30.98	29.80	28.59	27.32	25.99	24.60	23.13	21.56	19.89	18.07	16.06	13.80	11.15	7.77	2.10		
50		32.70	31.59	30.44	29.25	28.01	26.71	25.36	23.93	22.42	20.80	19.07	17.17	15.06	12.64	9.81	5.71			
60		32.19	31.06	29.89	28.68	27.42	26.10	24.71	23.24	21.69	20.02	18.21	16.22	13.98	11.37	8.07	2.79			

FRICITION LOSSES IN RISER PIPE  
 HAVE NOT BEEN CALCULATED

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