

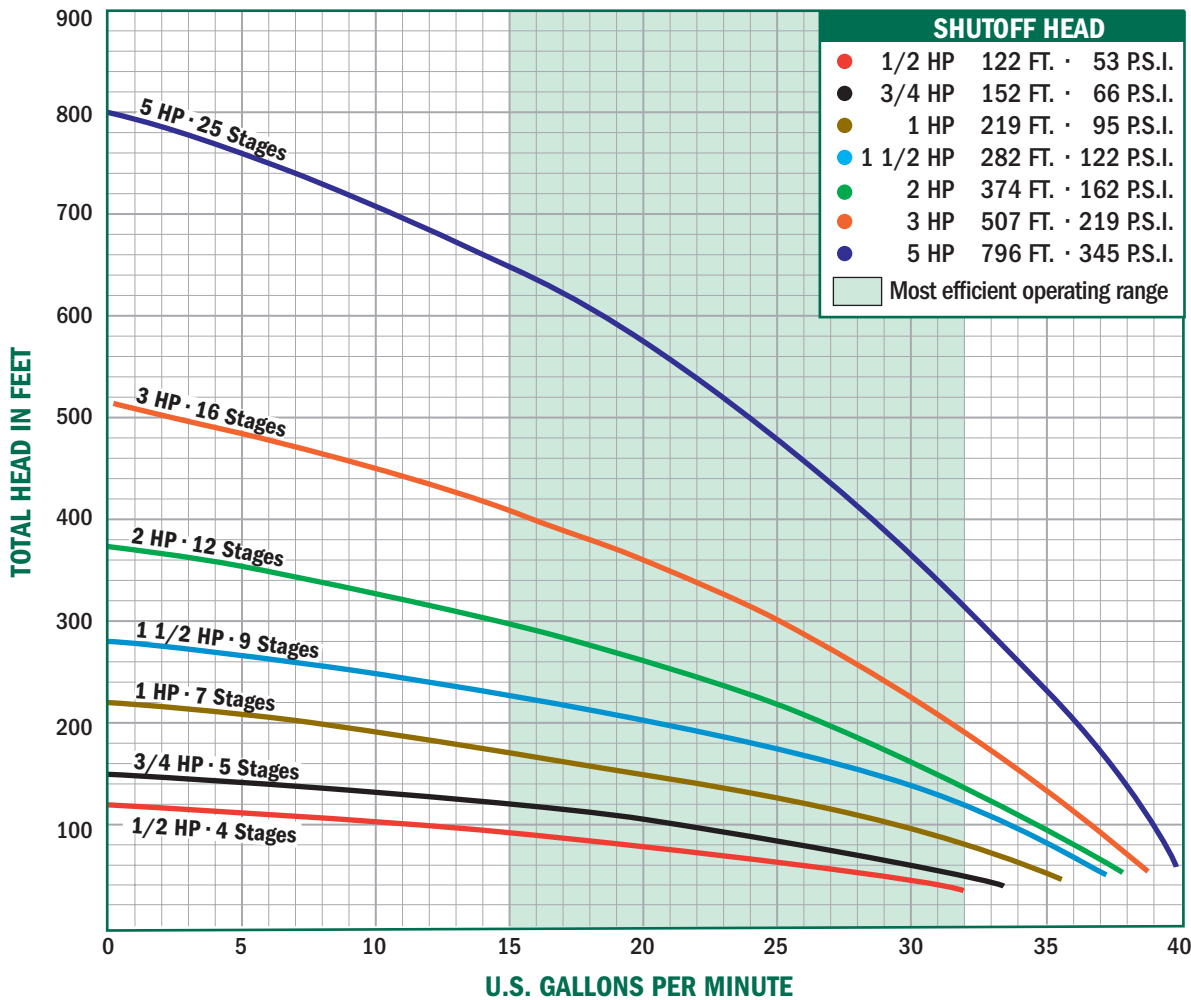
# SUBMITTAL DATA SHEET

23000 Series  
 4" No-Lead Domestic Stainless Steel Submersible Pumps  
**M - 25 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).



**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.**  
 4800 Chavenelle Rd  
 Dubuque, IA 52002

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A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

**Submitted by:**

# SUBMITTAL DATA SHEET

## 23000 Series 4" No-Lead Domestic Stainless Steel Submersible Pumps M - 25 GPM



### Two Wire Single Phase

Part No.	Model No.	HP	Stages	Volt	A	B	WT.
6650-230	23050M2A	1/2	4	115	10.9"	13.4"	24
6650-229	23050M2	1/2	4	230	10.9"	13.0"	24
6650-236	23075M2	3/4	5	230	12.0"	13.8"	27
6650-240	23100M2	1	7	230	14.2"	16.8"	36
6650-244	23150M2	1 1/2	9	230	16.3"	18.5"	40

### Three Wire\*\* Single Phase

Part No.	Model No.	HP	Stages	Volt	A	B	WT.
6650-232	23050M3A	1/2	4	115	10.9"	9.5"	27
6650-231	23050M3	1/2	4	230	10.9"	10.5"	27
6650-237	23075M3	3/4	5	230	12.0"	11.3"	30
6650-241	23100M3	1	7	230	14.2"	13.6"	34
6650-245	23150M3	1 1/2	9	230	16.3"	16.2"	42
6650-248	23200M3	2	12	230	19.5"	16.2"	48
6650-251	23300M3	3	16	230	23.8"	21.4"	60
6650-254	23500M3	5	25	230	34.9"	26.9"	95

### Three Wire Three Phase

Part No.	Model No.	HP	Stages	Volt	A	B	WT.
6637-021	23150M3Z	1 1/2	9	230	16.3"	13.6"	39
6639-031	23150M3Y	1 1/2	9	460	16.3"	13.6"	37
6637-023	23200M3Z	2	12	230	19.5"	15.4"	44
6639-033	23200M3Y	2	12	460	19.5"	15.4"	44
6637-025	23300M3Z	3	16	230	23.8"	19.8"	50
6639-035	23300M3Y	3	16	460	23.8"	19.08"	50
6650-257	23500M3Z	5	25	230	34.9"	24.2"	74
6650-256	23500M3Y	5	25	460	34.9"	24.2"	73

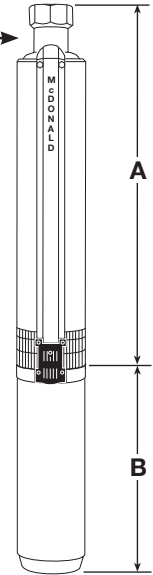
Pump end discharge  
1 1/4" FNPT

3 3/4" diameter  
with cable guard

### 4" Stainless Steel Pump Ends

Part No.	Model No.	HP	WT.
6650-228	23050M	1/2	7
6650-235	23075M	3/4	7
6650-239	23100M	1	8
6650-243	23150M	1 1/2	9
6650-247	23200M	2	10
6650-250	23300M	3	11
6650-253	23500M	5	18

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



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

PSI	25'	50'	75'	100'
<b>1/2 HP</b>	0	34.97	29.23	22.43
	30	15.93	2.93	
	40	4.38		

PSI	25'	50'	75'	100'	125'	150'
<b>3/4 HP</b>	0	36.08	31.97	27.33	21.88	14.91
	30	23.22	16.71	6.80		
	40	17.27	7.85			
50	8.81					

PSI	25'	50'	75'	100'	125'	150'	175'	200'
<b>1 HP</b>	0	38.23	35.39	32.34	29.02	25.34	21.13	16.10
	30	29.81	26.22	22.15	17.35	11.16		
	40	26.50	22.48	17.75	11.71	1.28		
	50	22.80	18.14	12.24	2.61			
60	18.53		3.73					

PSI	25'	50'	75'	100'	125'	150'	175'	200'	225'	250'	275'
<b>1 1/2 HP</b>	0	40.00	37.82	35.52	33.08	30.47	27.63	24.52	21.01	16.91	11.76
	30	33.65	31.08	28.30	25.26	21.85	17.91	13.07	6.06		
	40	31.28	28.52	25.50	22.13	18.24	13.49	6.76			
	50	28.74	25.74	22.40	18.56	13.90	7.42				
60	25.98		18.87	14.29	8.04						

PSI	50'	100'	150'	200'	250'	300'	350'
<b>2 HP</b>	0	38.07	34.66	30.92	26.74	21.91	15.98
	30	33.26	29.37	24.97	19.79	13.16	1.33
	40	31.52	27.42	22.70	16.98	9.04	
	50	29.68	25.33	20.23	13.75	2.92	
60	27.75	23.09	17.47	9.80			

PSI	50'	100'	150'	200'	250'	300'	350'	400'	450'	500'
<b>3 HP</b>	0	39.30	36.84	34.22	31.42	28.38	25.02	21.23	16.75	11.09
	30	35.85	33.16	30.28	27.12	23.62	19.61	14.78	8.24	
	40	34.63	31.86	28.86	25.55	21.84	17.51	12.08	3.58	
	50	33.38	30.50	27.37	23.90	19.94	15.19	8.85		
60	32.08	29.09	25.82	22.14	17.87	12.56	4.51			

PSI	50'	100'	150'	200'	250'	300'	350'	400'	450'	500'	550'	600'	650'	700'	750'
<b>5 HP</b>	0	40.4	38.9	37.4	35.8	34.1	32.4	30.6	28.6	26.5	24.2	21.6	18.7	15.2	11.0
	30	38.3	36.8	35.2	33.5	31.7	29.8	27.8	25.6	23.2	20.5	17.4	13.7	9.2	3.5
	40	37.6	36.0	34.4	32.7	30.9	28.9	26.8	24.5	22.0	19.1	15.8	11.7	6.7	
	50	36.9	35.3	33.6	31.9	30.0	28.0	25.8	23.4	20.7	17.7	14.0	9.5		
60	36.2	34.5	32.8	31.0	29.1	27.0	24.7	22.2	19.4	16.1	12.1	7.1			

FRICITION LOSSES IN RISER PIPE  
HAVE NOT BEEN CALCULATED

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