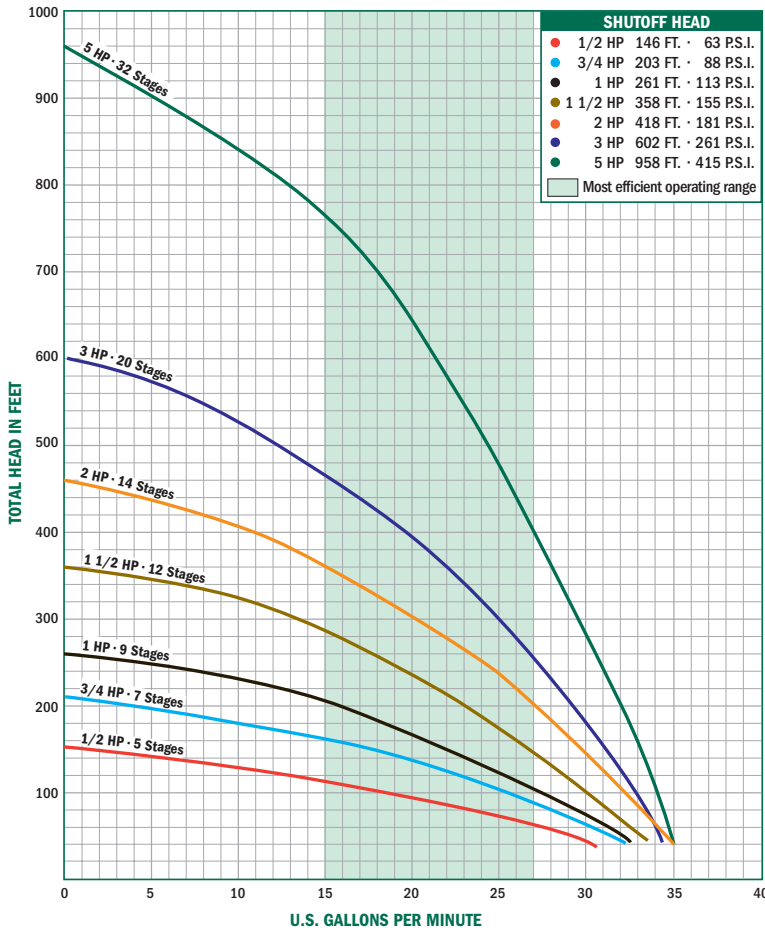


SUBMITTAL DATA SHEET

23000 Series 4" Stainless Steel Submersible Pumps P Series - 20 GPM



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



Models Available

Two Wire Single Phase

Model No.	HP	Stages	Volt	A	B	Wt.
23050P2A	1/2	5	115	12.02"	9.53"	24
23050P2	1/2	5	230	12.02"	9.53"	24
23075P2	3/4	7	230	14.17"	10.66"	28
23100P2	1	9	230	16.32"	11.75"	32
23150P2	1 1/2	12	230	19.54"	15.12"	42

Three Wire** Single Phase

Model No.	HP	Stages	Volt	A	B	Wt.
23050P3A	1/2	5	115	12.02"	9.53"	24
23050P3	1/2	5	230	12.02"	9.53"	24
23075P3	3/4	7	230	14.17"	10.66"	27
23100P3	1	9	230	16.32"	11.75"	32
23150P3	1 1/2	12	230	19.54"	13.62"	38
23200P3	2	14	230	21.69"	15.12"	43
23300P3	3	20	230	29.50"	19.06"	56
23500P3	5	32	230	42.38"	29.62"	84

Three Wire** Three Phase

Model No.	HP	Stages	Volt	A	B	Wt.
23150P3Z	1 1/2	12	230	19.54"	11.75"	35
23150P3Y	1 1/2	12	460	19.54"	11.75"	35
23200P3Z	2	14	230	21.69"	13.62"	40
23200P3Y	2	14	460	21.69"	13.62"	40
23300P3Z	3	20	230	29.50"	16.04"	49
23300P3Y	3	20	460	29.50"	16.04"	49
23500P3Z	5	32	230	42.38"	23.62"	72
23500P3Y	5	32	460	42.38"	23.62"	72

*All one-third horsepower pumps are furnished with one-half horsepower motors (and control boxes where applicable).

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

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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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" Stainless Steel Submersible Pumps P Series - 20 GPM



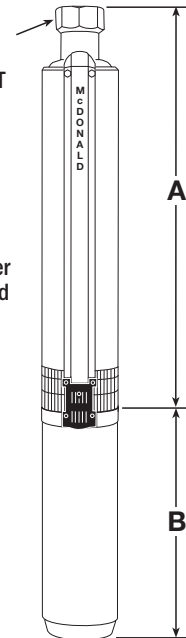
All P Series Stainless Steel Pumps come with a 1 1/4" discharge and sizes range from 1/2 to 5 horse power (HP). Two wire models up to 1 1/2 and three wire models up to 5 horse power (HP).

Output - in Gallons Per Minute (Depth to Water)

HP	PSI	25'	50'	75'	100'	125'	150'	175'	200'	225'	250'									
1/2	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	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	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															
1.5	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	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	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	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			

Pump end discharge
1 1/4" FNPT

3 3/4" diameter
with cable guard



FRICITION LOSSES IN RISER PIPE
HAVE NOT BEEN CALCULATED

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