



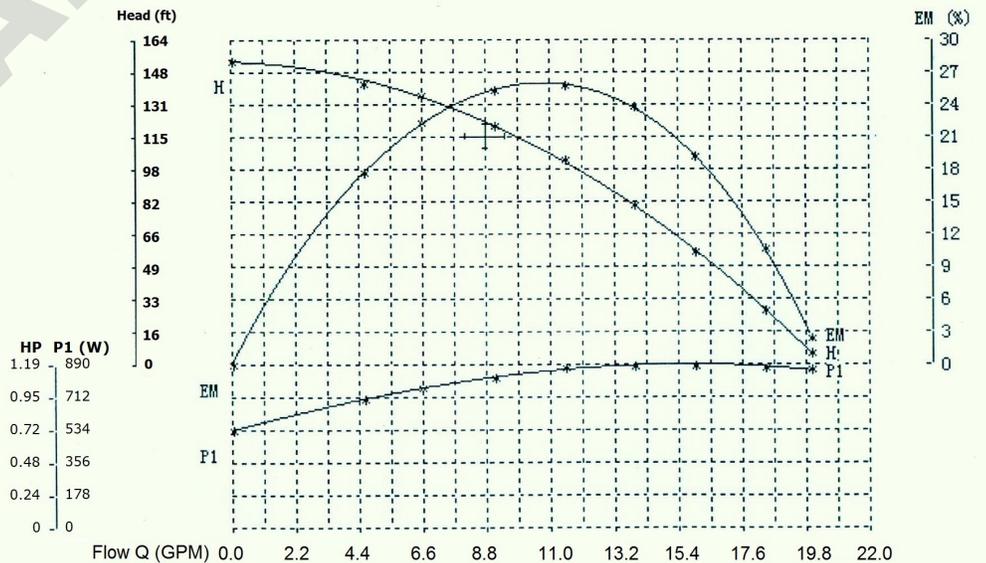
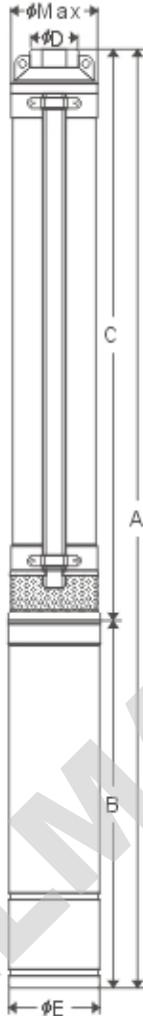
4" Deep Well Submersible Pump Performance chart

Part #	Power			Flow M ³ /H	0	1	2	2.6	3.2	3.6	4.2	4.5	Weight
	HP	Volt	Amp	Flow (GPM)	0	4.6	9.1	11.5	14	16	18.4	20	(lbs)
MA0343X-4	1/2	115	6.5	Head (ft)	154	142	120	103	80	56	27	5	26
MA0343X-4A	1/2	230	3.3	Head (ft)	154	142	120	103	80	56	27	5	26

A	B	C	D	E	MAX
25.3"	14.3"	11	1-1/4 NPT	3.8"	4.0"

Features & Technical Specifications:

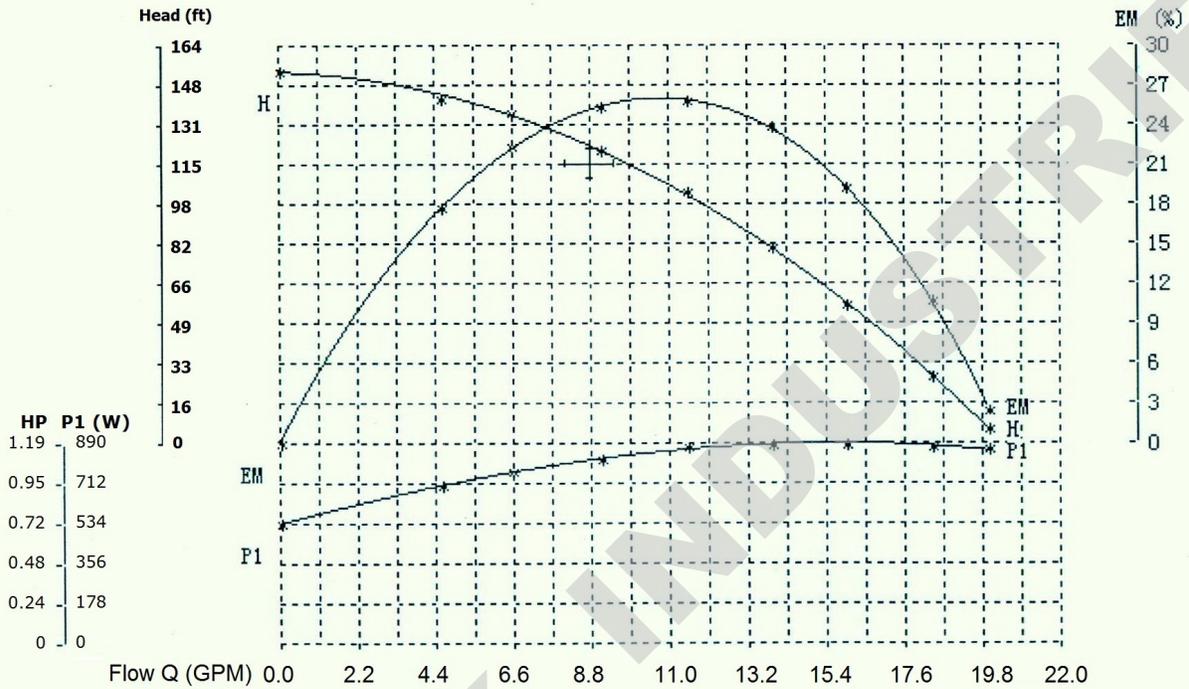
- 4" deep well submersible pump, 150 feet max head (open tank—no pressure).
- Patented impeller provides heavy duty high flow: 25 GPM. That is greater than almost all other 1/2 HP well pumps.
- Water temperature: (32 ~113°F)
- Trans medium's Ph: 6.5~ 8.5
- Solid stainless steel body with heavy duty cast iron discharge
- Industrial grade heavy duty, also good for home usage
- Built in capacitor start, and thermal protection for longer life and powerful start.
- Built in control box. This pump DOES NOT require an external control box!
- This pump uses high quality UL approved motor, UL file No.: E233961
- This is a 2 wire pump with 3-Wire (2 wires + ground wire)
- 10' long electric cord comes with this submersible deep well pump.
- 1 1/4" NPT discharge
- Designed to fit inside 4" ID or larger pipe/well casing
- Heavy-duty thermoplastic impellers, diffusers, and intake screen.
- High efficiency, hermetically sealed motor is thermally protected to prevent overheating
- Submersible design eliminates the need for priming and creates quiet operation



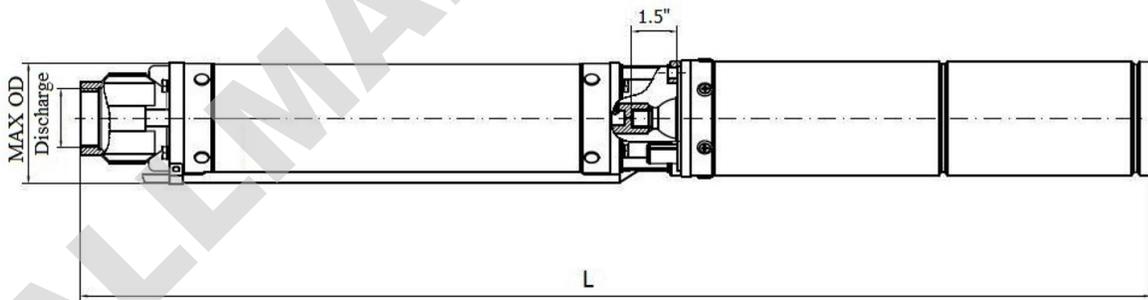
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4" Deep Well Submersible Pump, 1/2 HP Performance chart

Type	Power		Flow (m ³ /h)	0	1	2	2.6	3.2	3.6	4.2	4.5	Weight (lbs)
	kW	HP	Flow (gpm)	0	4.6	9.1	11.5	14	16	18.4	20	
Well	0.47	1/2	Head (ft)	154	142	120	103	80	56	27	5	26



HALLMARK INDUSTRIES INC. PUMP DIMENSIONS (inch [mm])



Hll Part #	HP	Volt	Pump OD	L (inch)	Discharge
MA0343X-4	1/2	115	4"	25.3	1-1/4 NPT
MA0343X-4A	1/2	230	4"	25.3	1-1/4 NPT
MA0414X-7	1	115	4"	29.6	1-1/4 NPT
MA0414X-7A	1	230	4"	29.6	1-1/4 NPT
MA0419X-12A	2	230	4"	36.4	1-1/4 NPT

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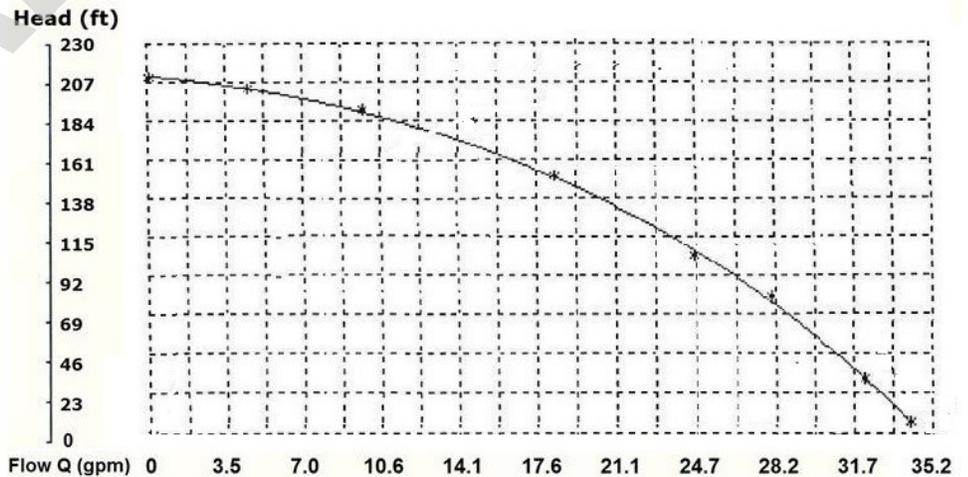
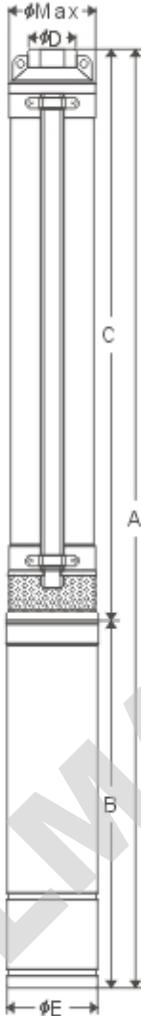
4" Deep Well Submersible Pump Performance chart

Part #	Power			Flow M ³ /H	0	1.2	2	3.2	4	5.6	6.4	7.4	Weight (lbs)
	HP	Volt	Amp		Flow GPM	0	5.3	8.8	14.1	17.6	24.7	28.2	
MA0414X-7	1	115	10.2	H (ft)	207	195	184	161	138	82	52	11	30
MA0414X-7A	1	230	5.1	H (ft)	207	195	184	161	138	82	52	11	30

A	B	C	D	E	MAX
29.7"	15.3"	14.4	1-1/4 NPT	3.8"	4.0"

Features & Technical Specifications:

- 4" deep well submersible pump, 7 stage, 207 feet max head (open tank).
- Patented impeller provides heavy duty high flow: 33 GPM. That is greater than almost all other 1 HP well pumps.
- Water temperature: (32 ~113°F)
- Trans medium's Ph: 6.5~ 8.5
- Solid stainless steel body with heavy duty cast iron discharge
- Industrial grade heavy duty, also good for home usage
- Built in capacitor start, and thermal protection for longer life and powerful start.
- Built in control box. This pump DOES NOT require an external control box!
- This pump uses high quality UL approved motor, UL file No.: E233961
- This is a 2 wire pump with 3-Wire (2 wires + ground wire)
- 10' long electric cord comes with this submersible deep well pump.
- 1 1/4" NPT discharge
- Designed to fit inside 4" ID or larger pipe/well casing
- Heavy-duty thermoplastic impellers, diffusers, and intake screen.
- High efficiency, hermetically sealed motor is thermally protected to prevent overheating
- Submersible design eliminates the need for priming and creates quiet operation



Head vs. Flow Performance Curve

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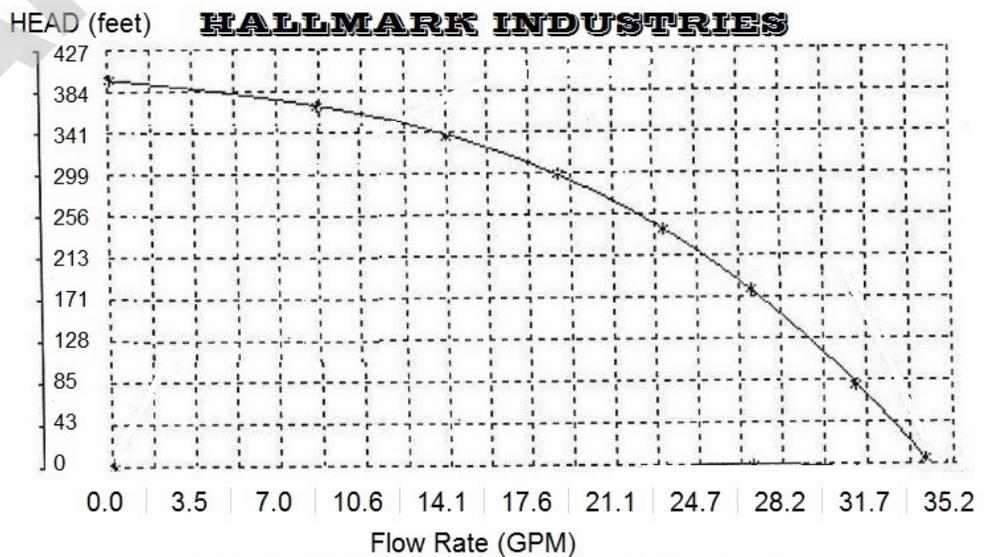
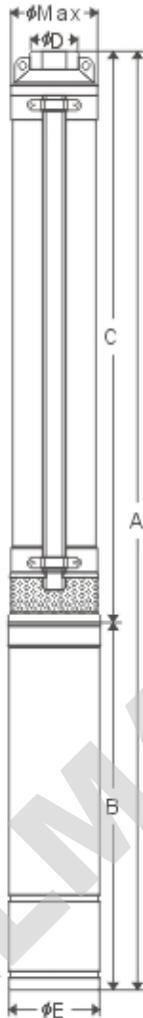
4" Deep Well Submersible Pump Performance chart

Part #	Power			Flow M ³ /H	0	2	3.2	4.27	5.26	6.11	7.2	7.74	Weight (lbs)
	HP	Volt	Amp	Flow GPM	0	8.8	14.1	18.8	23.2	27	32	34.1	
MA0419X-12A-E	2	230	10.2	H (ft)	400	369	330	288	232	171	77	5	39
MA0419X-12A	2	230	10.2	H (ft)	400	369	330	288	232	171	77	5	39

A	B	C	D	E	MAX
38.0"	15.3"	22.7	1-1/4 NPT	3.9"	4.0"

Features & Technical Specifications:

- 4" deep well submersible pump, 12 stage, 400 feet Max head (open tank)
- Patented impeller provides heavy duty high flow: 35 GPM. That is greater than almost all other 2 HP well pumps.
- Water temperature: (32 ~113°F)
- Solid stainless steel body with heavy duty cast iron discharge
- Industrial grade heavy duty, also good for home usage
- Capacitor start motor, and thermal protection for longer life and powerful start.
- MA0419X-12A has a built in control box, and does NOT require a control box!
- MA0419X-12A-E comes with an external control box.
- This pump uses high quality UL approved motor, UL file No.: E233961
- This is a 2 wire pump with 3-Wire (2 wires + ground wire)
- 10' long electric cord comes with this submersible deep well pump.
- 1 1/4" NPT discharge
- Designed to fit inside 4" ID or larger pipe/well casing
- Heavy-duty thermoplastic impellers, diffusers, and intake screen.
- High efficiency, hermetically sealed motor is thermally protected to prevent overheating
- Submersible design eliminates the need for priming and creates quiet operation



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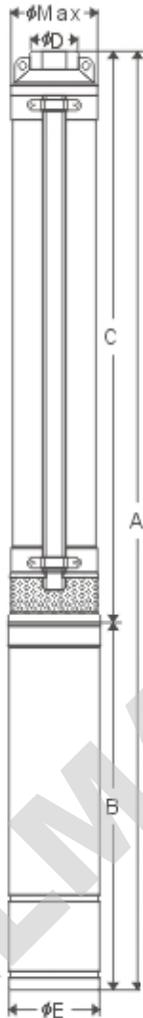


4" Deep Well Submersible Pump Performance chart

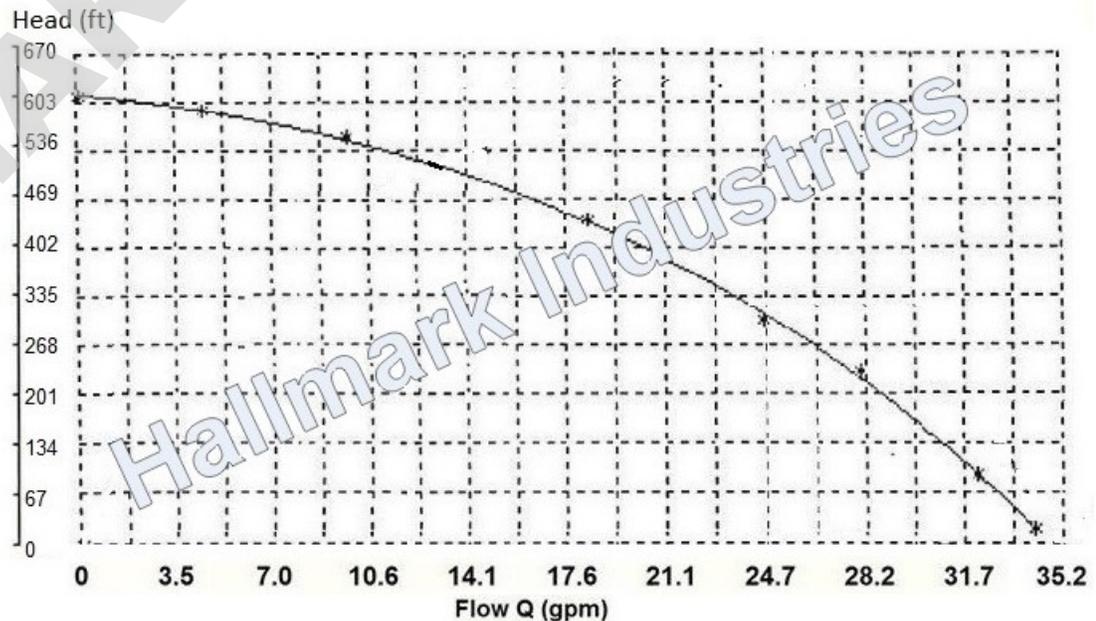
Part #	Power			Flow M ³ /H	0	2	3.2	4.27	5.26	6.11	7.2	7.74	Weight (lbs)
	HP	Volt	Amp	Flow GPM	0	8.8	14.1	18.8	23.2	27	32	34.1	
MA0431X-18A-E	3	230	17	H (ft)	400	369	330	288	232	171	77	5	54

A	B	C	D	E	MAX
51"	20.2"	30.8	1-1/4 NPT	3.9"	4.0"

Features & Technical Specifications:



- 4" deep well submersible pump, 18 - 20 stage, 625 feet Max head (open tank)
- Patented impeller provides heavy duty high flow: 35 GPM. That is greater than almost all other 3 HP well pumps.
- Water temperature: (32 ~113°F)
- Solid stainless steel body with heavy duty cast iron discharge
- Industrial grade heavy duty, also good for home usage
- Capacitor start motor, and thermal protection for longer life and powerful start.
- With a built in check valve!
- Comes with an external control box.
- This pump uses high quality UL approved motor, UL file No.: E233961
- This is a 3 wire pump with 4-Wire (3 wires + ground wire)
- 10' long electric cord comes with this submersible deep well pump.
- 1¼" NPT discharge
- Designed to fit inside 4" ID or larger pipe/well casing
- Heavy-duty thermoplastic impellers, diffusers, and intake screen.
- High efficiency, hermetically sealed motor is thermally protected to prevent overheating
- Submersible design eliminates the need for priming and creates quiet operation



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