



# 6", 8", & 10" Pump Ends

90 - 1100 GPM Stainless Steel Pumps



# Table of Contents

	Page		Page
General Information.....	2	<b>Motors / Control Boxes</b>	
Order / Identifying Pump Ends .....	3	4" Water Well / High Thrust.....	22
		Control Boxes .....	22
<b>Stainless Steel Pump Ends</b>		<b>Pump Accessories</b>	
90 GPM.....	4-5	Contactors & Adapter.....	23
150 GPM.....	6-7	Three phase control panels.....	24
230 GPM.....	8-9	Check Valves .....	24
300 GPM.....	10-11	6" & 8" Motors.....	25
400 GPM.....	12-13	Submonitor Kit .....	26
500 GPM.....	14-15		
650 GPM.....	16-17		
800 GPM.....	18-19		
1100 GPM.....	20-21		

## Components of 6", 8", and 10" Stainless Steel Pump

A.Y. McDonald offers a full line of submersible pump ends ranging from 2 horsepower through 250 horsepower. Our submersibles offer peak capacity performance in 90, 150, 230, 300, 400, 500, 650, 800, and 1100 GPM.

- Stainless Steel Construction designed and built for years of trouble free operation
- Stainless Steel discharge head with built-in check valve
- High-efficiency Stainless Steel impellers & diffusers
- Stainless Steel suction screen
- Stainless Steel shaft & coupling
- Stainless Steel NEMA faced mounting bracket



# How to Order 6", 8", and 10" Stainless Steel Pump Ends

Order by Model Number. Example: 90S3HP64

**90**

**Pump Model** ———  
6", 8", & 10" Submersible  
Stainless Steel Pumps  
90 GPM    500 GPM  
150 GPM   650 GPM  
230 GPM   800 GPM  
300 GPM   1100 GPM  
400 GPM

**S**

**Stainless Steel**

**3HP**

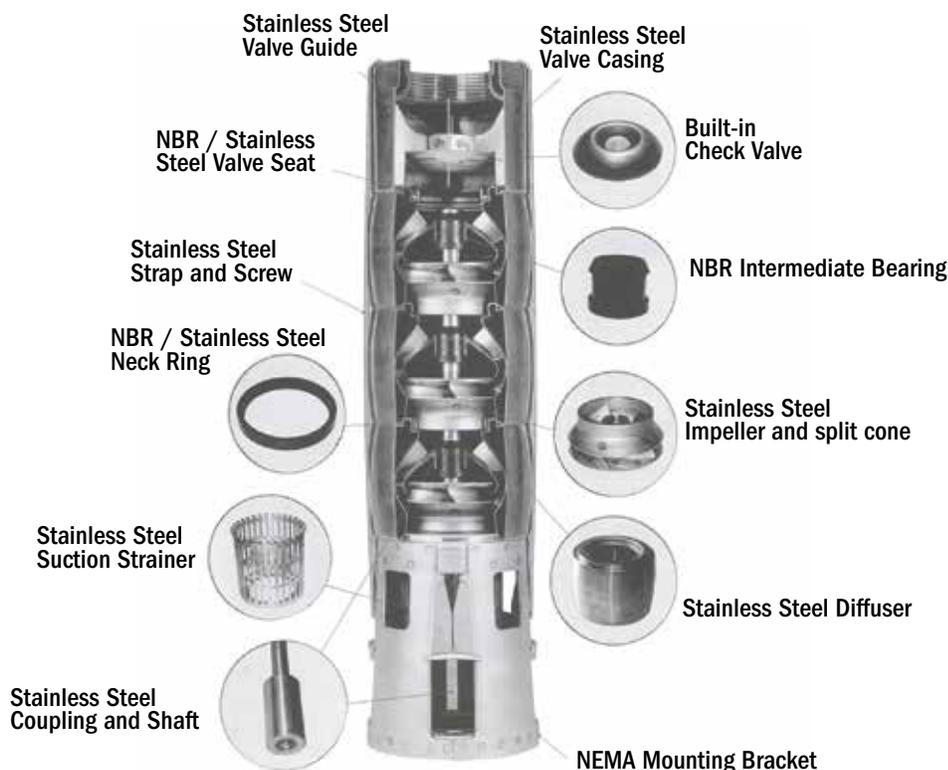
**Horsepower** ———  
3 HP    25 HP    100 HP  
5 HP    30 HP    125 HP  
7 1/2 HP   40 HP    150 HP  
10 HP    50 HP    175 HP  
15 HP    60 HP    200 HP  
20 HP    75 HP    250 HP

**6**

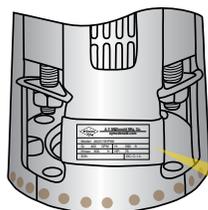
**Pump Size**  
4"  
6"  
8"

**4**

**Motor Bracket**  
4"  
6"  
8"



## How to Identify Pump Ends in the Field



**Serial Number**

 <b>A.Y. McDonald Mfg. Co.</b> aymcdonald.com	
Model: 400S75HP88	
Q: 400 GPM	H: 560 ft
Hmax: 800 ft	HP: 75
S/N:	DC: C-14

## 90 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 90 GPM. Each pump end includes cable guard, bolts, and washers. The 90 GPM Series is a 6" Stainless Steel Pump End that ranges in size from 3 to 40 Horsepower.



### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
90S3HP64	3	2	4"	3"	15.87	5.16	14.14
90S5HP64	5	4	4"	3"	20.63	5.16	20.55
90S7.5HP66	7.5	6	6"	3"	25.39	5.16	26.96
90S10HP66	10	9	6"	3"	32.56	5.59	36.69
90S15HP66	15	13	6"	3"	42.09	5.59	49.50
90S20HP66	20	18	6"	3"	53.98	5.59	65.42
90S25HP66	25	22	6"	3"	63.50	5.59	78.23
90S30HP66	30	26	6"	3"	73.03	5.59	91.05
90S40HP66	40	30	6"	3"	82.60	5.59	103.60

### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE / CF	
Neck Ring Retainer	Stainless Steel	304
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304

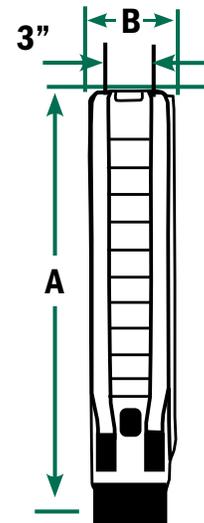
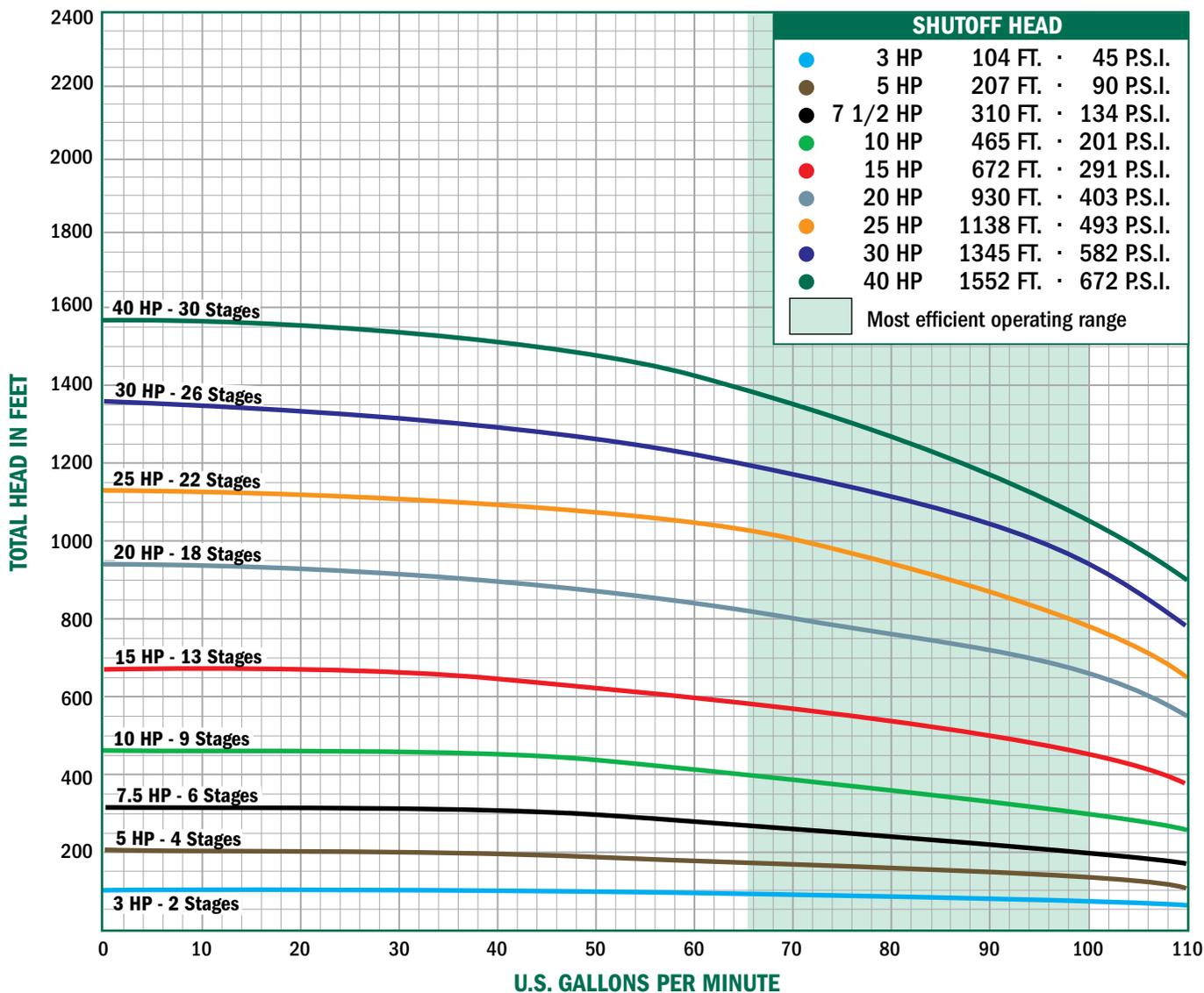


Fig. A



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
 - CONTACT FACTORY FOR CAPACITIES NOT CATALOGED

## 150 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 150 GPM. Each pump end includes cable guard, bolts, and washers. The 150 GPM Series is a 6" Stainless Steel Pump End that ranges in size from 5 to 50 Horsepower.

### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
150S5HP64	5	3	4"	3"	21.97	5.16	22.32
150S7.5HP66	7.5	4	6"	3"	25.75	5.16	26.08
150S10HP66	10	5	6"	3"	29.53	5.59	29.84
150S15HP66	15	8	6"	3"	40.87	5.59	41.11
150S20HP66	20	11	6"	3"	52.20	5.59	52.16
150S25HP66	25	14	6"	3"	59.76	5.59	63.43
150S30HP66	30	17	6"	3"	74.88	5.59	74.70
150S40HP66	40	23	6"	3"	97.56	5.59	97.24
150S50HP66	50	28	6"	3"	116.46	5.59	115.80



### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE / CF	
Neck Ring Retainer	Stainless Steel	304
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304

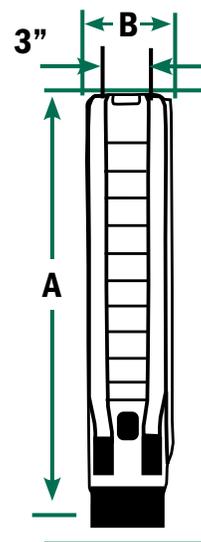
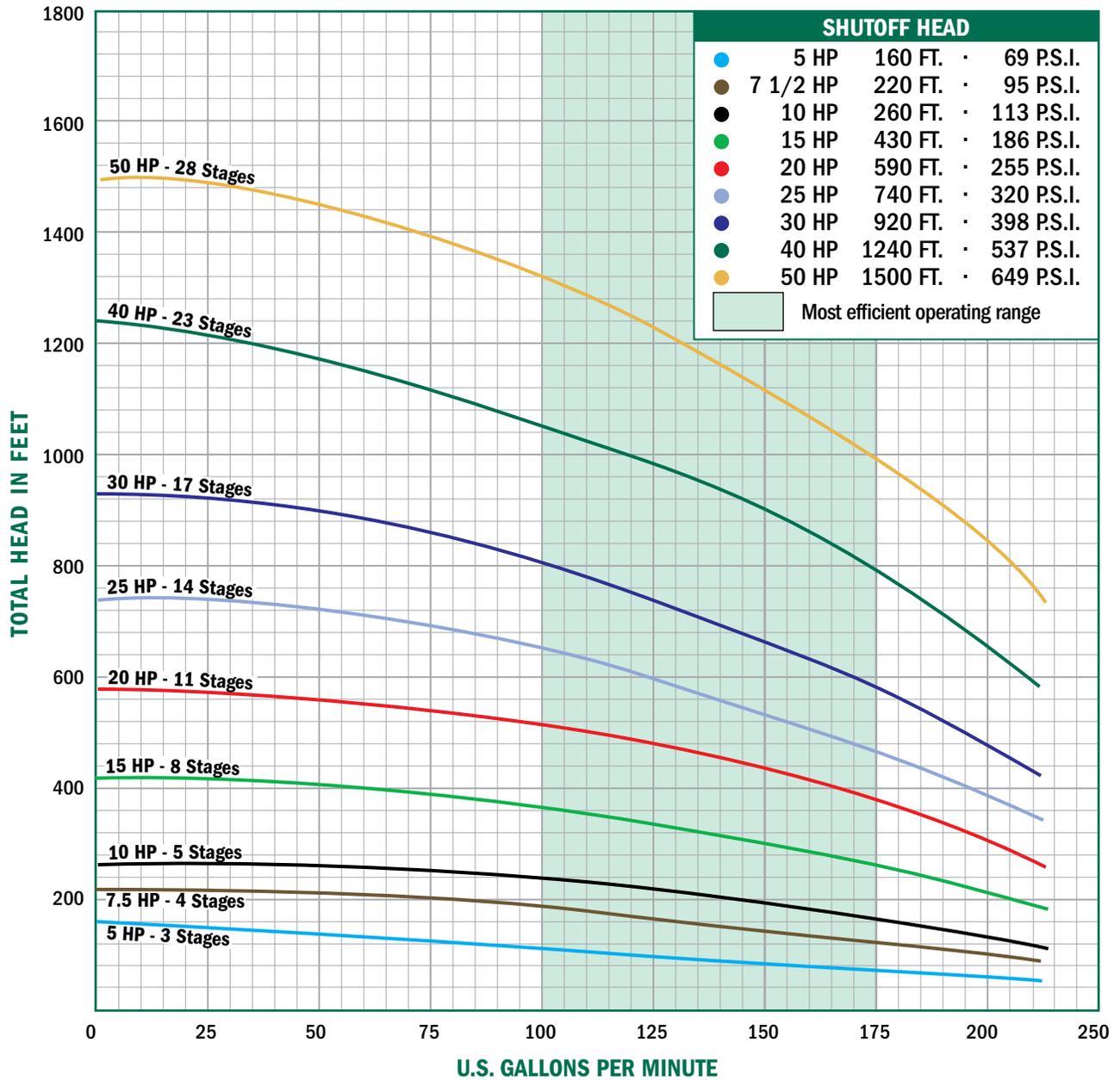


Fig. A



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
- CONTACT FACTORY FOR CAPACITIES NOT CATALOGED

## 230 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 230 GPM. Each pump end includes cable guard, bolts, and washers. The 230 GPM Series is a 6" Stainless Steel Pump End that ranges in size from 5 to 60 Horsepower.



### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
230S5HP64	5	2	4"	3"	19.53	5.75	20.33
230S7.5HP66	7.5	3	6"	3"	23.98	5.75	25.42
230S10HP66	10	4	6"	3"	28.43	5.87	30.28
230S15HP66	15	5	6"	3"	32.87	5.87	35.36
230S20HP66	20	7	6"	3"	41.77	5.87	45.53
230S25HP66	25	8	6"	3"	46.22	5.87	50.61
230S30HP66	30	10	6"	3"	55.12	5.87	60.55
230S40HP66	40	13	6"	3"	68.46	5.87	75.80
230S50HP66	50	17	6"	3"	86.26	5.87	95.91
230S60HP66	60	20	6"	3"	99.81	5.87	110.94

### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bottom Neck Ring	PTFE + CF	
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Nut for Stop Ring	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE / CF	
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304
Strainer Cap	Stainless Steel	304

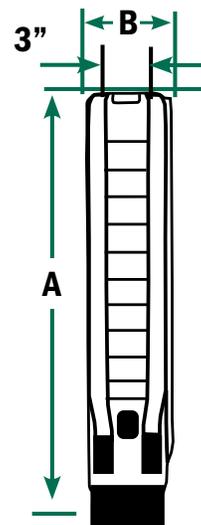
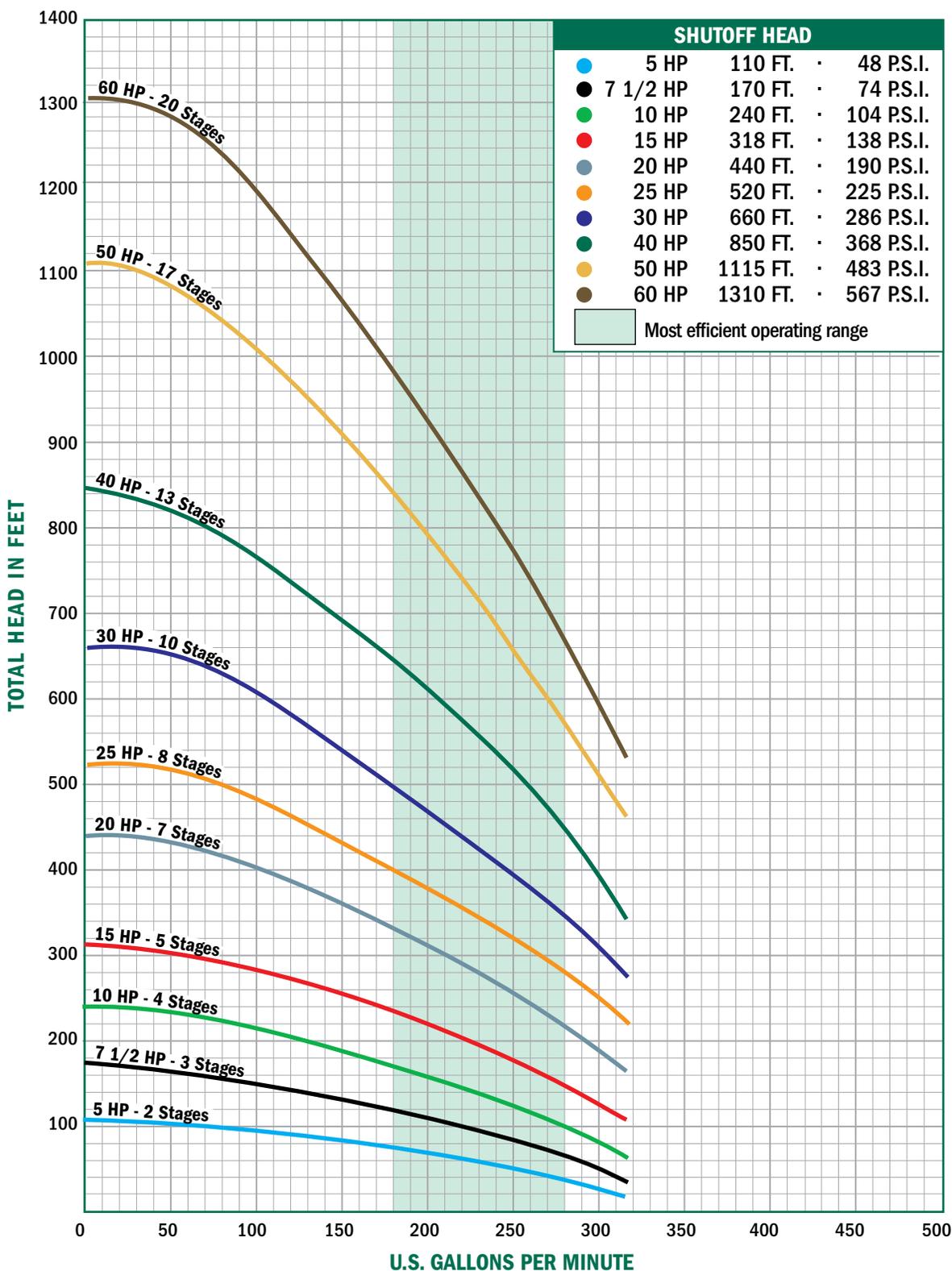


Fig. A



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
 - CONTACT FACTORY FOR CAPACITIES NOT CATALOGED

## 300 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 300 GPM. Each pump end includes cable guard, bolts, and washers. The 300 GPM Series is a 6" Stainless Steel Pump End that ranges in size from 5 to 60 Horsepower.

### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
300S5HP64	5	1	4"	4"	15.08	5.75	15.25
300S7.5HP66	7.5	2	6"	4"	19.53	5.75	20.33
300S10HP66	10	3	6"	4"	23.98	5.87	25.42
300S15HP66	15	4	6"	4"	28.43	5.87	30.28
300S20HP66	20	6	6"	4"	37.32	5.87	40.44
300S25HP66	25	7	6"	4"	41.77	5.87	45.53
300S30HP66	30	9	6"	4"	50.67	5.87	55.47
300S40HP66	40	11	6"	4"	59.57	5.87	65.64
300S50HP66	50	14	6"	4"	72.91	5.87	80.67
300S60HP66	60	17	6"	4"	86.26	5.87	95.91



### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bottom Neck Ring	PTFE + CF	
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Nut for Stop Ring	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE / CF	
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304
Strainer Cap	Stainless Steel	304

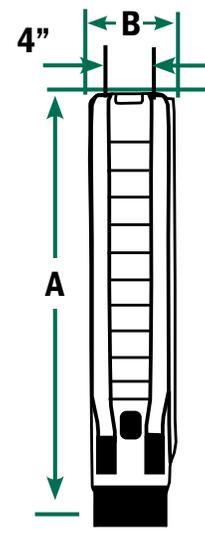
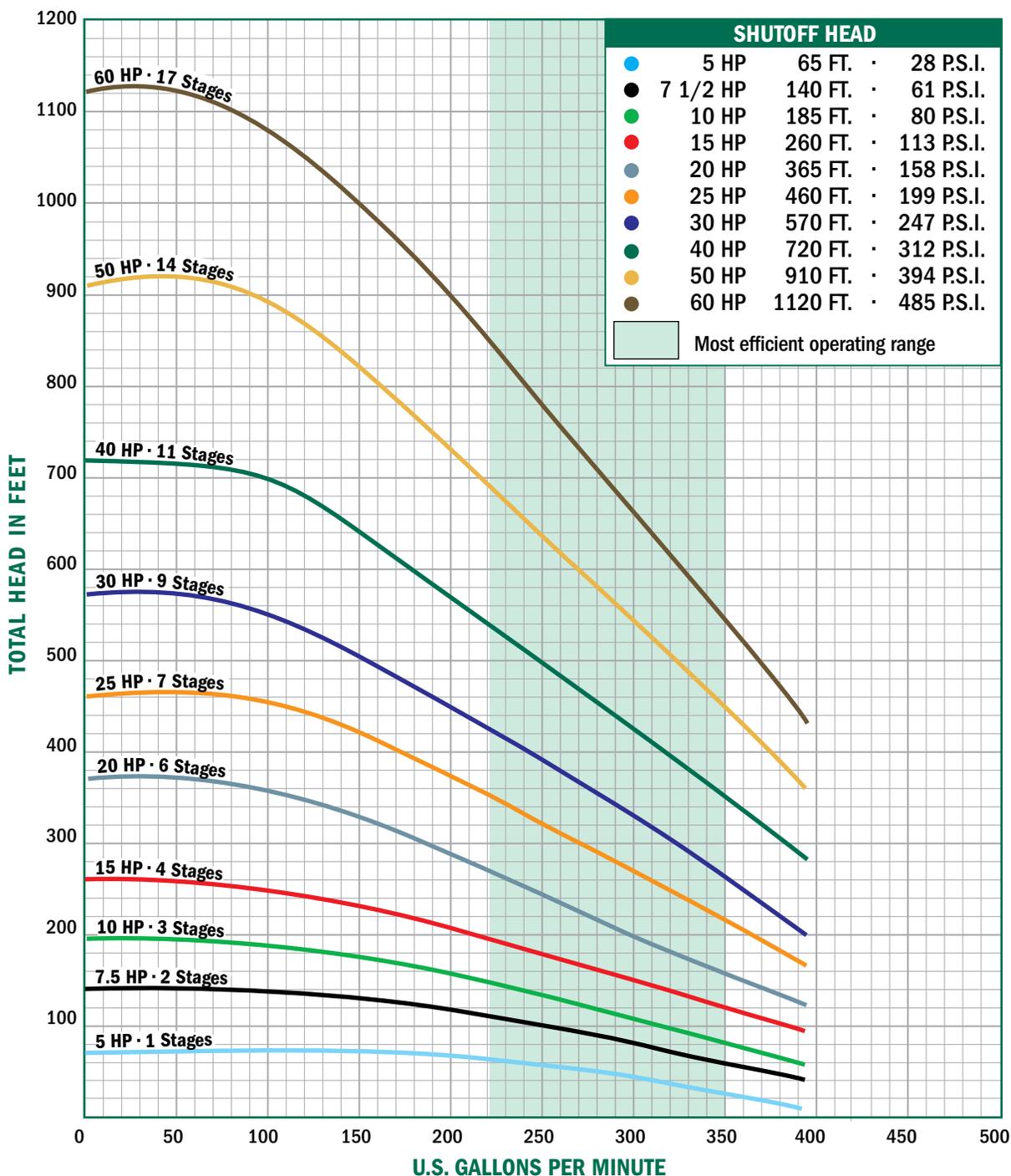


Fig. A



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
- CONTACT FACTORY FOR CAPACITIES NOT CATALOGED

## 400 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 400 GPM. Each pump end includes cable guard, bolts, and washers. The 400 GPM Series is a 8" Stainless Steel Pump End that ranges in size from 5 to 100 Horsepower.

### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
400S5HP86	5	1	6"	5"	24.30	7.01	55.30
400S7.5HP86	7.5	1	6"	5"	24.33	7.01	55.47
400S10HP86	10	2	6"	5"	29.37	7.01	63.43
400S15HP86	15	2	6"	5"	29.37	7.01	63.43
400S20HP86	20	3	6"	5"	34.41	7.01	71.38
400S25HP86	25	4	6"	5"	39.49	7.01	79.34
400S30HP86	30	5	6"	5"	44.53	7.01	87.30
400S40HP86	40	6	6"	5"	49.57	7.01	95.03
400S50HP86	50	7	6"	5"	54.61	7.01	102.99
400S60HP86	60	8	6"	5"	60.12	7.87	114.04
400S75HP88	75	10	8"	5"	70.20	7.87	129.95
400S100HP88	100	13	8"	5"	85.35	7.87	153.82



### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bottom Neck Ring	PTFE + CF	
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Nut for Stop Ring	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE + CF	
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304
Strainer Cap	Stainless Steel	304

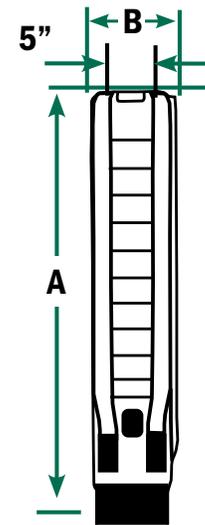
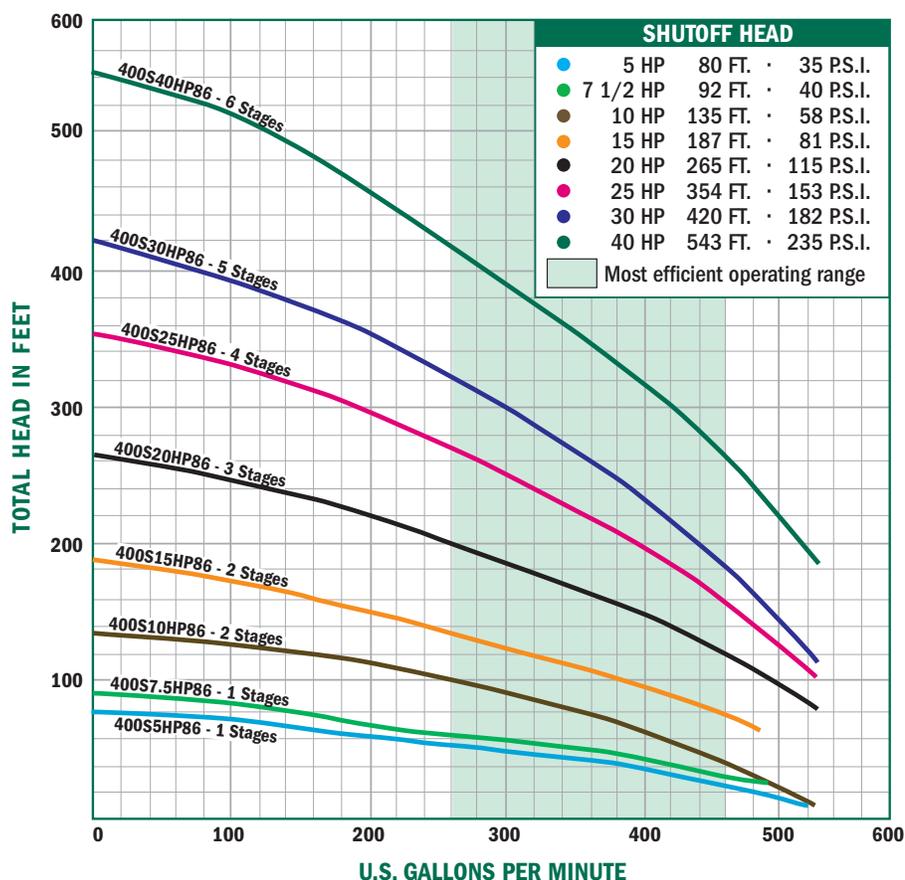
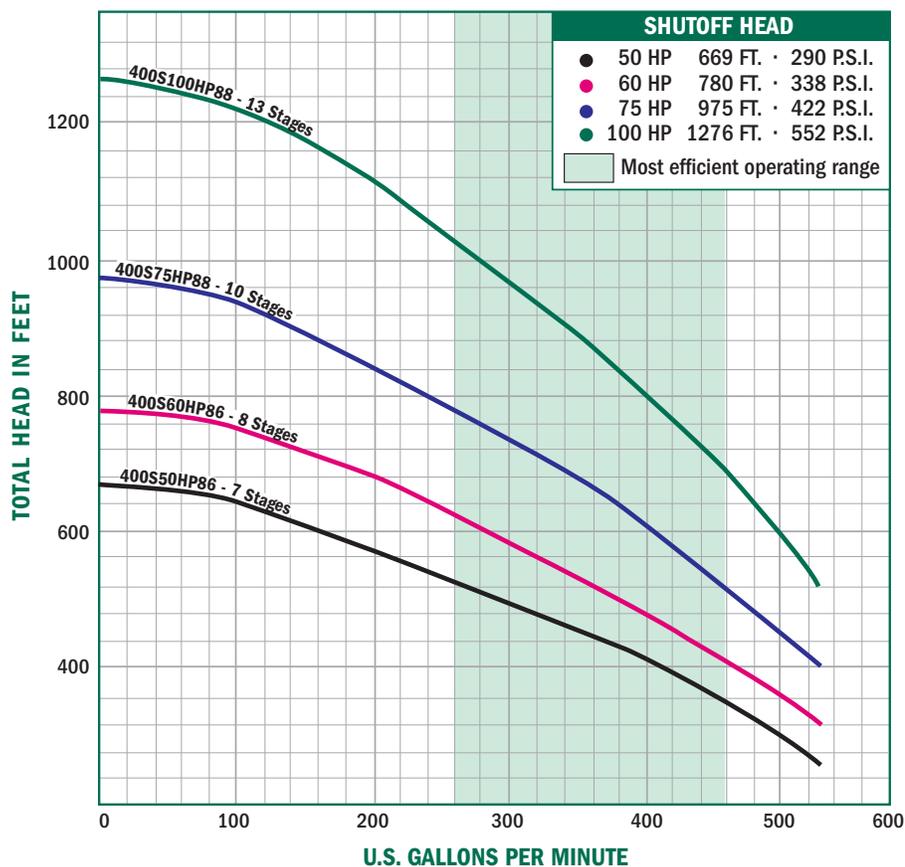


Fig. A

## 400 GPM



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
 - CONTACT FACTORY FOR CAPACITIES NOT CATALOGED

## 500 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 500 GPM. Each pump end includes cable guard, bolts, and washers. The 500 GPM Series is a 8" Stainless Steel Pump End that ranges in size from 5 to 125 Horsepower.

### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
500S5HP86	5	1	6"	5"	24.30	7.05	55.30
500S7.5HP86	7.5	1	6"	5"	24.33	7.05	55.47
500S10HP86	10	1	6"	5"	24.33	7.05	55.47
500S15HP86	15	2	6"	5"	29.37	7.05	63.43
500S20HP86	20	3	6"	5"	34.41	7.05	71.38
500S25HP86	25	3	6"	5"	34.41	7.05	71.38
500S30HP86	30	4	6"	5"	39.49	7.05	79.34
500S40HP86	40	5	6"	5"	44.53	7.05	87.30
500S50HP86	50	6	6"	5"	49.57	7.05	95.03
500S60HP86	60	7	6"	5"	55.04	8.07	106.08
500S75HP88	75	8	8"	5"	60.12	8.07	114.04
500S100HP88	100	11	8"	5"	75.24	8.07	137.90
500S125HP88	125	13	8"	5"	85.35	8.07	153.82

### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bottom Neck Ring	PTFE + CF	
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Nut for Stop Ring	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE + CF	
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304
Strainer Cap	Stainless Steel	304

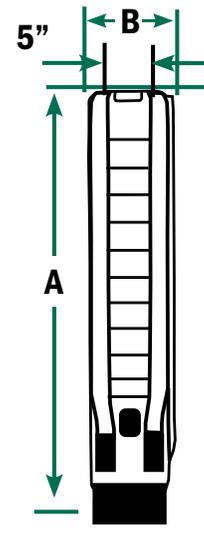
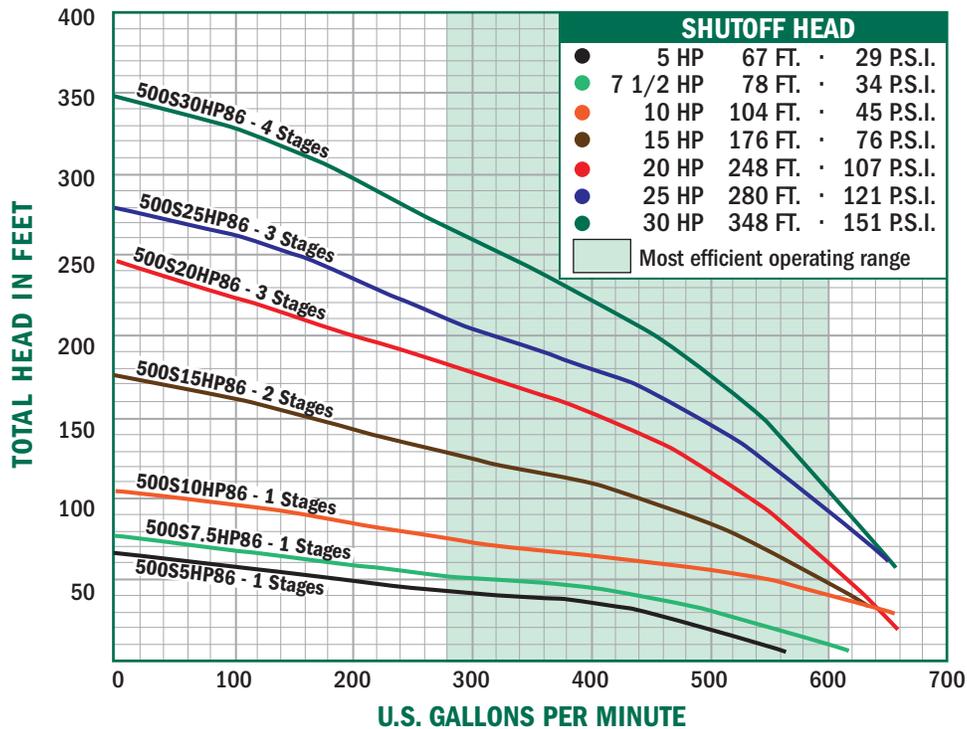
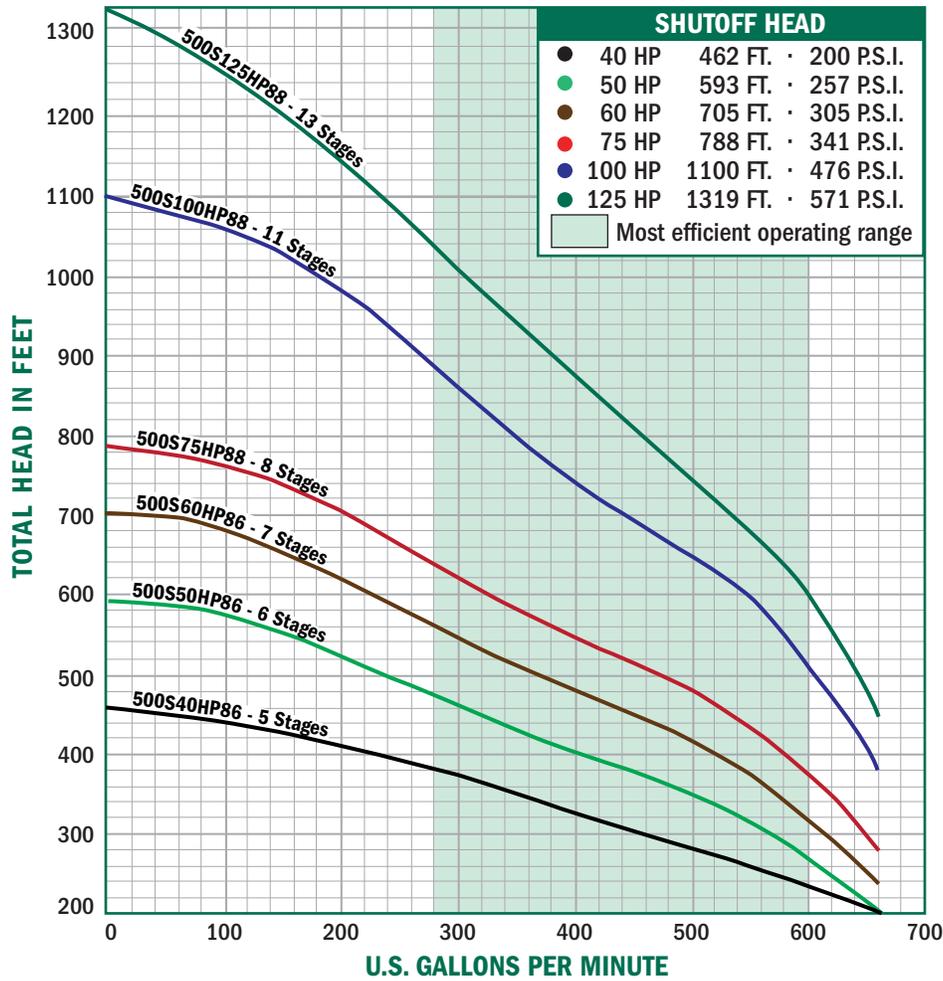


Fig. A

## 500 GPM



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
 - CONTACT FACTORY FOR CAPACITIES NOT CATALOGED

## 650 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 650 GPM. Each pump end includes cable guard, bolts, and washers. The 650 GPM Series is a 10" Stainless Steel Pump End that ranges in size from 15 to 125 Horsepower.

### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
650S15HP106	15	1	6"	6"	25.67	8.31	64.53
650S25HP106	25	1	6"	6"	25.67	8.31	64.75
650S30HP106	30	2	6"	6"	31.77	8.31	78.68
650S40HP106	40	2	6"	6"	31.77	8.31	78.90
650S40HP106H	40	2	6"	6"	31.77	8.31	79.12
650S50HP106	50	3	6"	6"	31.77	8.39	93.04
650S60HP106	60	3	6"	6"	37.91	8.31	93.48
650S75HP108H	75	4	8"	6"	44.02	8.39	114.92
650S100HP108	100	4	8"	6"	44.02	8.39	115.14
650S100HP108H	100	5	8"	6"	50.16	8.39	125.97
650S100HP108SH	100	6	8"	6"	56.26	8.39	136.80
650S125HP108H	125	6	8"	6"	56.26	8.39	137.24
650S125HP108SH	125	7	8"	6"	62.40	8.39	148.07

### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bottom Neck Ring	PTFE + CF	
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Nut for Stop Ring	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE + CF	
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304
Strainer Cap	Stainless Steel	304

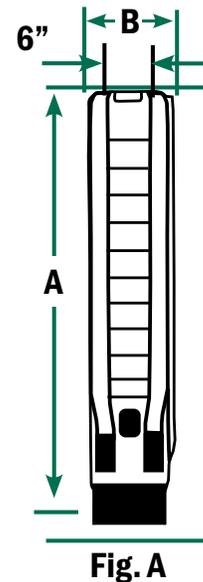
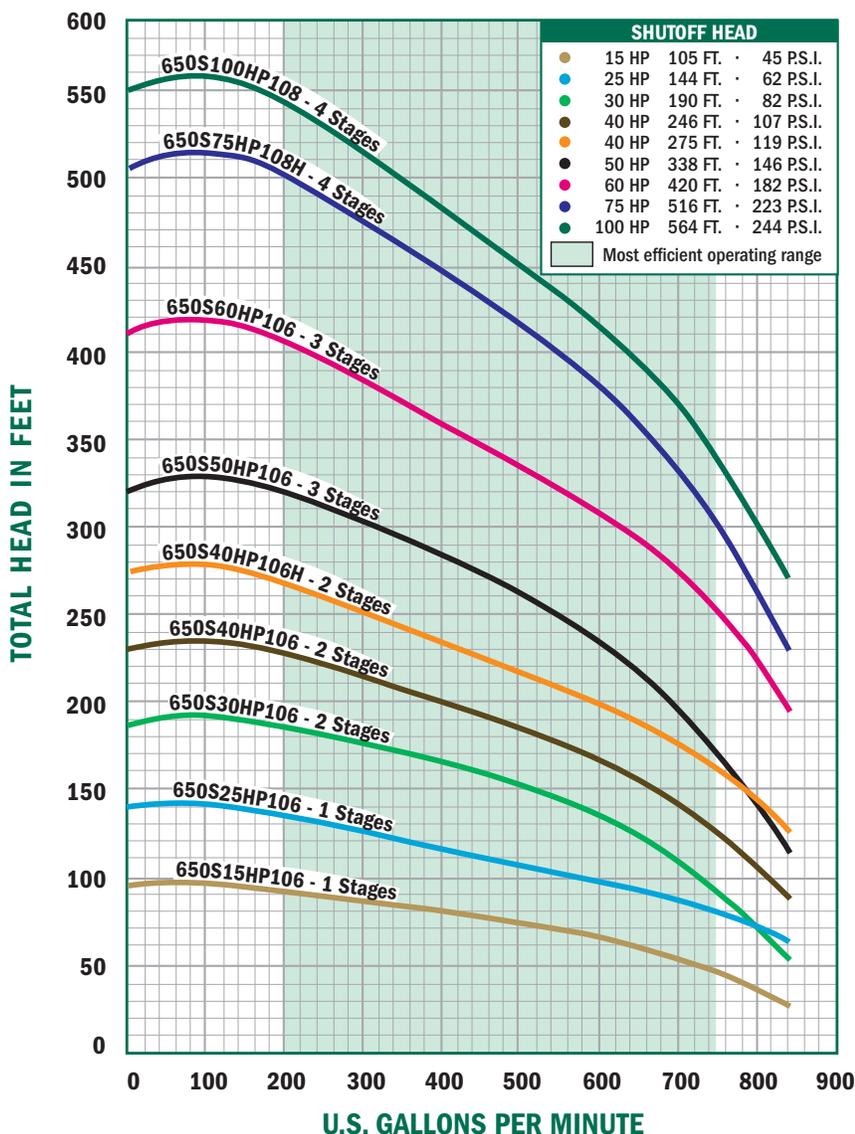
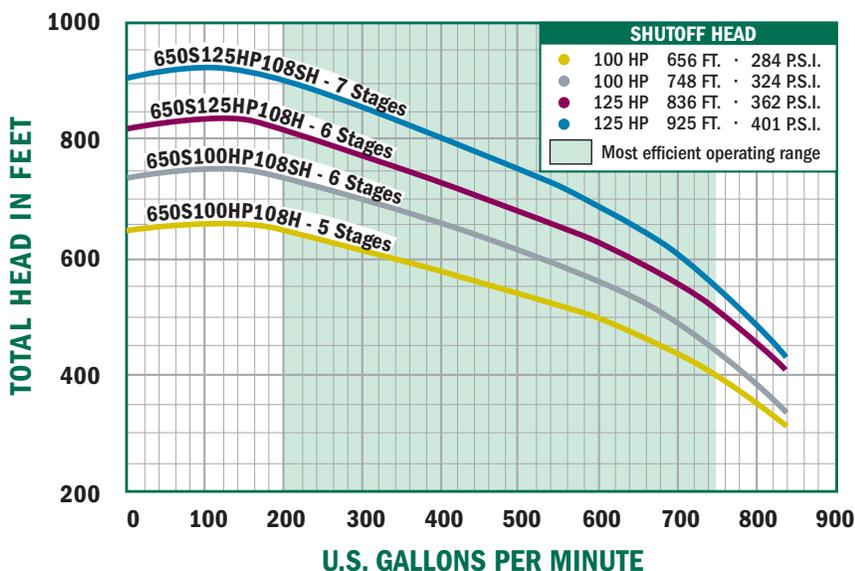


Fig. A

## 650 GPM



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
 - CONTACT FACTORY FOR CAPACITIES NOT CATALOGED

## 800 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 800 GPM. Each pump end includes cable guard, bolts, and washers. The 800 GPM Series is a 10" Stainless Steel Pump End that ranges in size from 20 to 125 Horsepower.

### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
800S20HP106	20	1	6"	6"	25.67	8.31	67.18
800S30HP106	30	1	6"	6"	25.67	8.31	67.18
800S40HP106	40	2	6"	6"	31.77	8.31	81.11
800S50HP106	50	2	6"	6"	31.77	8.31	81.33
800S50HP106H	50	2	6"	6"	31.77	8.31	81.33
800S60HP106	60	3	6"	6"	37.91	8.39	98.35
800S75HP108H	75	3	8"	6"	37.91	8.39	98.57
800S100HP108	100	4	8"	6"	44.02	8.39	112.49
800S100HP108H	100	4	8"	6"	44.02	8.39	112.71
800S125HP108	125	5	8"	6"	50.16	8.39	126.63
800S125HP108HH	125	5	8"	6"	50.16	8.39	126.85



### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bottom Neck Ring	PTFE + CF	
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Nut for Stop Ring	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE + CF	
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304
Strainer Cap	Stainless Steel	304

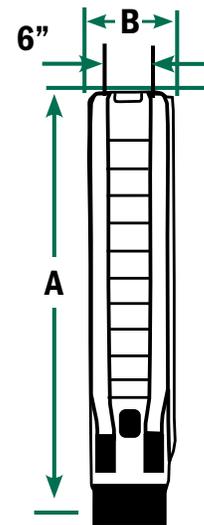
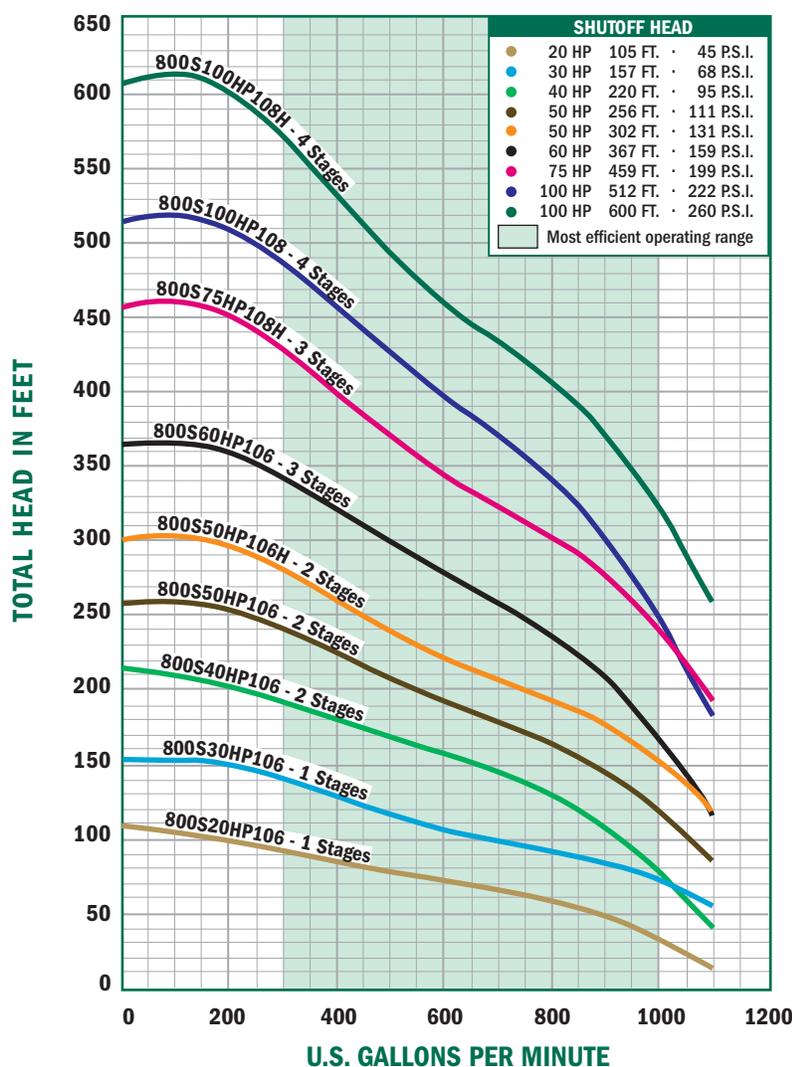
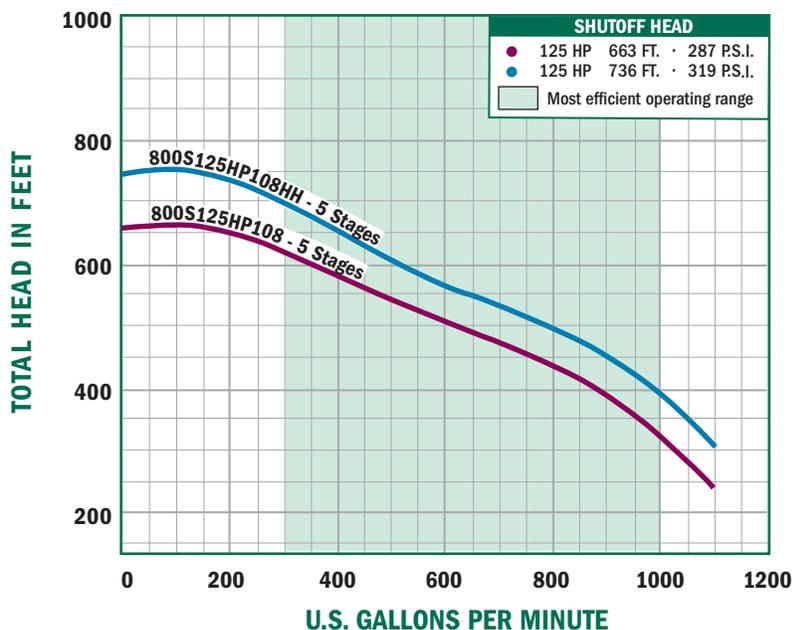


Fig. A

## 800 GPM



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
 - CONTACT FACTORY FOR CAPACITIES NOT CATALOGED

## 1100 GPM

A.Y. McDonald stainless steel pump ends offer peak capacity performance in its 1100 GPM. Each pump end includes cable guard, bolts, and washers. The 1100 GPM Series is a 10" Stainless Steel Pump End that ranges in size from 30 to 250 Horsepower.

### Models Available

Model Number	HP	Stage	Motor Size	Disch. Size	Dimension in Inches		Wt.
					A	B	
1100S30HP106	30	1	6"	6"	30.38	9.33	101.88
1100S40HP106	40	1	6"	6"	30.38	9.33	101.88
1100S60HP106	60	2	6"	6"	37.31	9.33	123.32
1100S75HP108	75	2	8"	6"	37.31	9.33	123.32
1100S100HP108	100	2	8"	6"	37.31	9.33	123.32
1100S100HP108H	100	3	8"	6"	44.24	9.33	144.98
1100S125HP108	125	3	8"	6"	44.24	9.33	144.98
1100S150HP108	150	4	8"	6"	51.14	9.33	166.63
1100S150HP108HH	150	4	8"	6"	51.14	9.33	166.63
*1100S175HP1010	175	5	10"	6"	58.11	10.31	200.67
*1100S200HP1010	200	5	10"	6"	58.11	10.31	200.67
*1100S250HP1010	250	7	10"	6"			
*1100S250HP1010HH	250	7	10"	6"			

\*Motor manufacture information needed when placing order.



### Material Specification

Component	Materials	Standard
Discharge	Stainless Steel	304
Valve Cone	Stainless Steel	304
Valve Seat	Stainless Steel / Rubber	304 / NBR
Top Diffuser	Stainless Steel	304
Upper Bearing	Stainless Steel / Rubber	304 / NBR
Neck Ring	Stainless Steel / Rubber	304 / NBR
Bottom Neck Ring	PTFE + CF	
Bearing	Rubber	NBR
Diffuser	Stainless Steel	304
Split Cone Nut	Stainless Steel	304
Nut for Stop Ring	Stainless Steel	304
Split Cone	Stainless Steel	304
Ring of Impeller	Stainless Steel	304
Impeller	Stainless Steel	304
Bottom Diffuser	Stainless Steel	304
Lower Bearing	Stainless Steel / Rubber	304 / NBR
Stop Ring	Stainless Steel	304
Spacing Washer for Stop Ring	PTFE + CF	
Strainer	Stainless Steel	304
Suction Interconnector	Stainless Steel	304
Pump Shaft	Stainless Steel	431
Coupling	Stainless Steel	304
Strap	Stainless Steel	304
Nut	Stainless Steel	304
Cable Guard	Stainless Steel	304
Strainer Cap	Stainless Steel	304

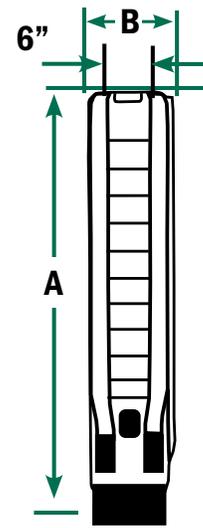
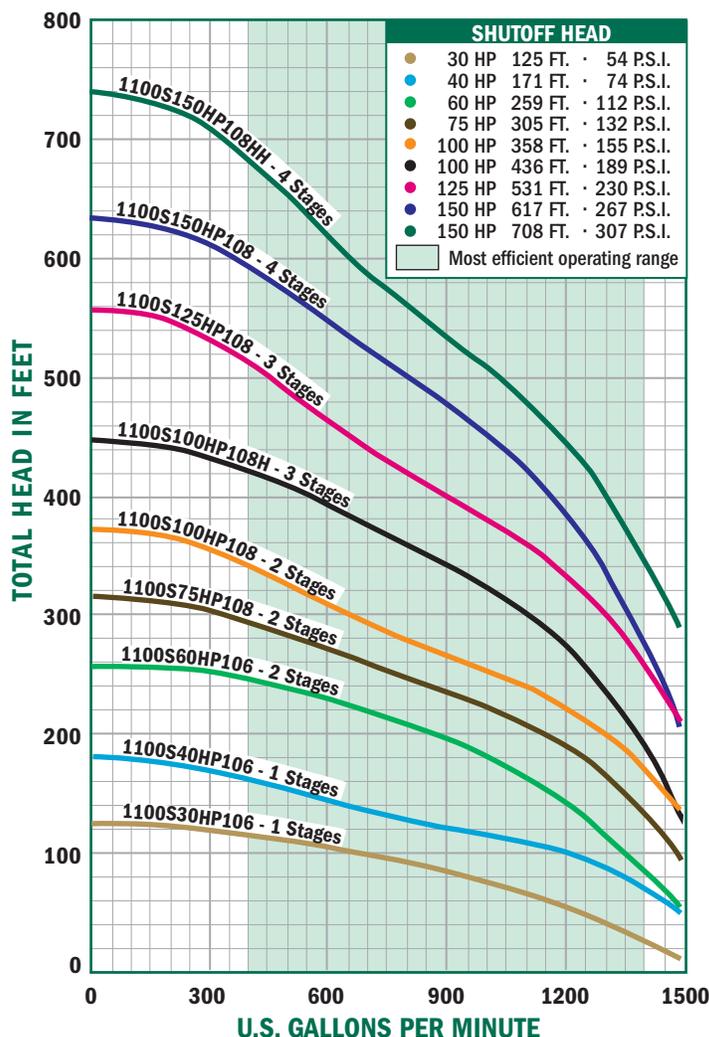
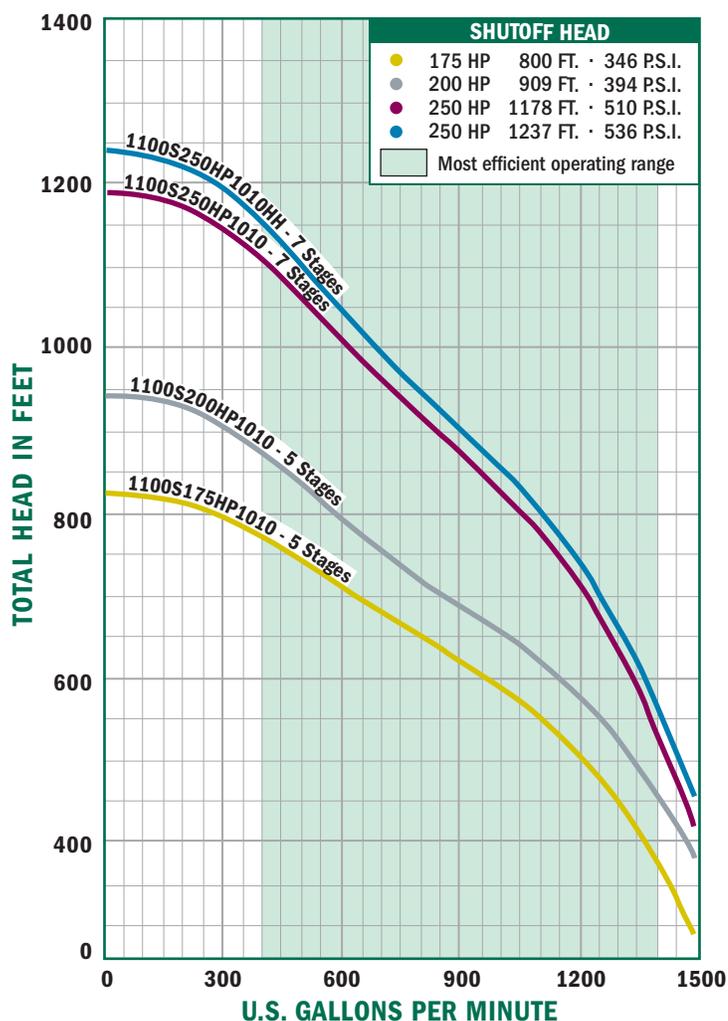
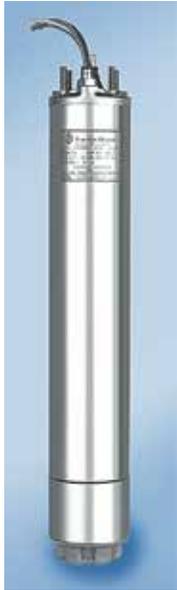


Fig. A

## 1100 GPM



- FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED  
 - CONTACT FACTORY FOR CAPACITIES NOT CATALOGED



## 4" High Thrust Water Well - Three Wire - Single Phase - 60 HZ (Control Box Required)

HP	KW	Downward Thrust Lbs	Volts	Service Factor	Franklin Model No.	Franklin Control Box	A.Y. M <sup>o</sup> Donald Model No.	A.Y. M <sup>o</sup> Donald Control Box
3	2.2	900	230	1.15	224 302 26	282 302 83	3129-363	6617-142
3	2.2	1500	230	1.15	224 302 86	282 302 83	3129-880	6617-142
5	3.7	1500	230	1.15	224 303 86	282 113 93	3129-717	6617-134

## 4" High Thrust Water Well - Three Wire - Three Phase - 60 HZ (Special Control Required - See note)

HP	KW	Downward Thrust Lbs	Volts	Service Factor	Franklin Model No.	A.Y. M <sup>o</sup> Donald Model No.
3	2.2	900	200	1.15	234 306 26	3129-846
		900	230	1.15	234 316 26	3129-709
		900	460/380*	1.15	234 326 26	3129-807
		900	575	1.15	234 336 26	3129-868
5	3.7	1500	200	1.15	234 307 86	3129-847
		1500	230	1.15	234 317 86	3129-718
		1500	460/380*	1.15	234 327 86	3129-808
		1500	575	1.15	234 337 86	3129-835
7 1/2	5.5	1500	200	1.15	234 308 86	3129-848
		1500	230	1.15	234 318 86	3129-783
		1500	460/380*	1.15	234 328 86	3129-784
		1500	575	1.15	234 338 86	3129-866
10	7.5	1500	460/380*	1.15	234 595 86	3129-785
		1500	575	1.15	234 598 86	3129-883

**Note:**  
Franklin does not manufacture three-phase controls. Standard three-phase contactor with overload protection is required for positive motor protection.

**Warranty is void where proper overload protection is not employed.**



### Standard Integral HP

- For use with single phase submersible motors  
3 through 5 HP

HP	KW	Volts	HZ	Franklin Model No.	A.Y. M <sup>o</sup> Donald Model No.
3	2.2	230	60	282 302 81	6617-114
5	3.7	230	60	282 113 81	6617-133

### 6" Single Phase Control Boxes

#### Deluxe Integral HP Includes Magnetic Contactor

- For use with single phase submersible motors 5 through 15 HP - 60 HZ

HP	KW	Volts	Franklin Model No.	A.Y. M <sup>o</sup> Donald Model No.
5	3.7	230	282 113 93	6617-134
7 1/2	5.6	230	282 201 93	6201-151
7 1/2	5.6	230	282 201 92	6201-154
10	7.5	230	282 202 92	6201-155
10	7.5	230	282 202 93	6201-152
15	11	230	282 203 93	6201-153



### Deluxe Integral HP Includes Magnetic Contactor

- For use with single phase submersible motors  
3 through 5 HP - 60 HZ

HP	KW	Volts	Coil Inrush Current	Franklin Model No.	A.Y. M <sup>o</sup> Donald Model No.
3	2.2	230	0.22 Amps	282 302 83	6617-142
5	3.7	230	0.22 Amps	282 113 93	6617-134



### Pumptec-Plus

- For use with 4" single phase submersible motors  
1/2 through 5 HP.

#### Protects against:

- Over/under load - Over/under voltage
- Low yield wells - Mud or sand clogging
- Cavitation (air lock) - Drop in water level
- Rapid cycling - Faulty check valve

HP	Volts	HZ	Franklin Model No.	A.Y. M <sup>o</sup> Donald Model No.
1/2-5	230	60	580 006 0100	6617-143

## Contactors

IEC Contactors for three phase motors

Each kit includes Nema 1 enclosure, contactor, and overload assembled with the correct voltage coil needed.



### CONTACTORS WITH 200V COIL

A.Y. M <sup>e</sup> Donald Part No.	HP	Volts
3131-295	3	200
3131-296	5	200
3131-297	7 1/2	200
3131-298	10	200
3131-299	15	200
3131-300	20	200
3131-301	25	200
3131-302	30	200

### CONTACTORS WITH 230V COIL

A.Y. M <sup>e</sup> Donald Part No.	HP	Volts
3131-308	3	230
3131-309	5	230
3131-310	7 1/2	230
3131-311	10	230
3131-312	15	230
3131-313	20	230
3131-314	25	230
3131-315	30	230

### CONTACTORS WITH 460V COIL

A.Y. M <sup>e</sup> Donald Part No.	HP	Volts
3131-321	3	460
3131-322	5	460
3131-323	7 1/2	460
3131-324	10	460
3131-325	15	460
3131-326	20	460
3131-327	25	460
3131-328	30	460
3131-329	40	460
3131-330	50	460
3131-331	60	460
3131-332	75	460

## Adapter



### Motor Adapter

- 6180-326
- 4" pump end to 6" motor Stainless Steel
- Bolts included

## Three Phase Control Panels

### Siemens Pump Control Panels

#### Features:

- Three phase - 60 Cycle (Hz)
- Heavy Duty NEMA Starter
- ESP 100 Class 10 Overload
- Bold Pilot Legend On Front
- Generous Accessory Space

#### ESP 100 Features:

- Phase Loss Protection: Trips in 3 Seconds
- Self Powered Solid State Overload Relay
- Versatile Design with 2:1 Adjustment dial
- Ambient Insensitive
- Overload meets Franklin Warranty Requirements



Prices do not include fuses.

MOTOR RATING		Size	Fuse Clip Size	Approx. Weight	Without Submonitor		With Submonitor	
Max HP	Volts				Siemens Model No.	A.Y. M <sup>o</sup> Donald Part No.	Siemens Model No.	A.Y. M <sup>o</sup> Donald Part No.
3	230	1	30	55	87DUD6LC	6617-001	FS87DUD6LC	6201-197
5	230	1	30	55	87DUE6LC	6617-002	FS87DUD6LC	6201-197
7.5	230	1	30	55	87DUE6LC	6617-002	FS87DSE6FC	6201-198
10	230	1 3/4	60	55	87EUE6LC	6617-003	FS87EUE6LC	6201-199
15	230	2	60	55	87FUF6LC	6617-004	FS87FUF6LC	6201-200
20	230	2 1/2	100	90	87GUG6PC	6617-005	FS87GUG6PC	6201-201
25	230	3	100	90	87HUG6LC	6617-006	FS87HUG6LC	6201-202
30	230	3	100	90	87HUG6LC	6617-006	FS87HUG6LC	6201-203
5	460	1	30	55	87DUC6FC	6617-007	FS87DUD6FC	6201-204
7.5	460	1	30	55	87DUD6FC	6617-008	FS87DUD6FC	6201-205
10	460	1	30	55	87DUD6FC	6617-008	FS87DUD6FC	6201-206
15	460	1 3/4	30	55	87EUE6FC	6617-009	FS87EUE6FC	6201-207
20	460	2	60	55	87FUF6FC	6617-010	FS87FUF6FC	6201-208
25	460	2	60	55	87FUF6FC	6617-010	FS87FUF6FC	6201-209
30	460	2 1/2	60	90	87GUG6FC	6617-011	FS87GUG6FC	6201-210
40	460	3	100	90	87HUG6FC	6617-012	FS87HUG6FC	6201-211
50	460	3	100	90	87HUG6FC	6617-012	FS87HUG6FC	6201-212
60	460	3 1/2	200	90	87IUH6FC	6617-013	FS87IUH6FC	6201-213
75	460	3 1/2	200	90	87IUH6FC	6617-013	FS87IUH6FC	6201-214
100	460	4	200	170	87JUH6FC	6617-014	FS87JUH6FC	6201-215
125	460	5	400	350	87LPU6FH	6617-015	FS87LPU6FH	6201-216
150	460	5	400	350	87LPU6FH	6617-015	FS87LPU6FH	6201-217
200	460	5	400	350	87LPU6FH	6617-015	----	----

## Check Valves



### 500D - Ductile Iron Check Valves with Break Off Plug

Bronze poppet. Stainless steel spring and nut. Painted. Breakoff plug is stainless steel. When manually broken, the break off plug allows for water drainage from drop pipe before removal of pump. Available in 3" and 4" sizes.

6814-316 Breakoff Plug only



### Large Ductile Iron Check Valves

Silicon bronze poppet. Stainless steel spring and nut. Non-toxic polyester powder coat paint. FNPT x FNPT, No tappings. For additional sizes, contact factory.

6200-188 6" x 6"

## 6" & 8" Motors

### 6" Water Well - Three Wire DOL - Single Phase - 60 HZ Capacitor Start, Capacitor Run (Control Box Required)

HP	KW	Downward Thrust Lbs	Volts	Service Factor	Franklin Model No.	Franklin Control Box	A.Y. M <sup>o</sup> Donald Model No.	A.Y. M <sup>o</sup> Donald Control Box
5	3.7	1500	230	1.15	226 110 90	282 113 81	6201-101	6617-134
7 1/2	5.5	1500	230	1.15	226 111 90	282 201 92	6201-102	6201-151
10	7.5	3500	230	1.15	226 112 90	282 202 92	6201-103	6201-152
15	11	3500	230	1.15	226 113 90	282 203 93	6201-104	6201-153

### 6" Water Well - Three Wire DOL - Three Phase (Special Controls Required)

HP	KW	Downward Thrust Lbs	Volts	HZ	Service Factor	Franklin Model No.	Wire Size	A.Y. M <sup>o</sup> Donald Model No.
5	3.7	1500	230	60	1.15	236 600 81	8	6201-221
		1500	460/380	60/50	1.15/1.0	236 610 81	8	6201-222
7 1/2	5.5	1500	230	60	1.15	236 601 81	8	6201-223
		1500	460/380	60/50	1.15/1.0	236 611 81	8	6201-224
		1500	575	60	1.15	236 621 81	8	6201-180
10	7.5	3500	200	60	1.15	236 652 81	8	6201-225
		3500	230	60	1.15	236 602 81	8	6201-226
		3500	460/380	60/50	1.15/1.0	236 612 81	8	6201-227
15	11	3500	200	60	1.15	236 653 81	8	6201-220
		3500	230	60	1.15	236 603 81	8	6201-228
		3500	460/380	60/50	1.15/1.0	236 613 81	8	6201-229
20	15	3500	200	60	1.15	236 654 81	8	6201-230
		3500	230	60	1.15	236 604 81	8	6201-231
		3500	460/380	60/50	1.15/1.0	236 614 81	8	6201-232
25	18.5	3500	200	60	1.15	236 655 81	8	6201-240
		3500	230	60	1.15	236 605 81	8	6201-233
		3500	460/380	60/50	1.15/1.0	236 615 81	8	6201-234
30	22	3500	200	60	1.15	236 656 90	8	6201-244
		3500	230	60	1.15	236 606 81	8	6201-235
		3500	460/380	60/50	1.15/1.0	236 616 81	8	6201-236
40	30	3500	460/380	60/50	1.15/1.0	236 617 81	8	6201-237
		6000	460/380	60/50	1.15/1.0	236 618 8128	8	6201-238
50	37	6000	575	50	1.15	236 628 8125	8	6201-242
		6000	460/380	60/50	1.15/1.0	236 619 8125	8	6201-239
60	45	6000	575	60	1.15	236 629 8125	8	6201-245
		6000	575	60	1.15	236 629 8125	8	6201-245



These motors are built for dependable operation in 6" diameter or larger water wells.



These motors are built for dependable operation in 8" diameter or larger water wells.

### 8" Water Well - Three Wire DOL - Three Phase

HP	KW	Downward Thrust Lbs	Volts	HZ	Service Factor	Franklin Model No.	A.Y. M <sup>o</sup> Donald Model No.
40	30	10000	460/380	60/50	1.15/1.0	239 600 60	6201-140
50	37	10000	460/380	60/50	1.15/1.0	239 601 60	6201-141
60	45	10000	460/380	60/50	1.15/1.0	239 602 60	6201-142
75	55	10000	460/380	60/50	1.15/1.0	239 603 60	6201-143
100	75	10000	460/380	60/50	1.15/1.0	239 604 60	6201-144
100	75	10000	575	60	1.15	239 614 6021	6201-241
125		10000	460	60	1.15	239 105 6004	6201-248
150	112	10000	575	60	1.15	239 116 8504	6201-243

- Contact the factory for pricing and availability of Voltages and HP's not listed.
- Refer to pages 22 - 24 for control panels and contactors.
- Franklin does not manufacture three-phase controls. Franklin's SubMonitor or standard three-phase magnetic starter with ambient compensated quick-trip overload protection is required for positive motor protection.  
**Warranty is void where this protection is not employed.**
- Can be special ordered without Subtrol protection. Contact factory.
- **Warranty is void if Franklin supplied leads or cables are not used.**

**Do not use motors in swimming areas**





# Well-equipped.

Founded more than 158 years ago, A.Y. McDonald Mfg. Co. is the only remaining family-owned business in the industry. We have a proud tradition of providing quality water pumps and submersible pumps to professional installers — and exceptional customer support to back them up.

#### Choose A.Y. McDonald for:

- Friendly, responsive, dedicated customer service specialists
- Hand-assembled products built exclusively for professional installation
- Application-specific solutions to meet your needs as an installer
- Comprehensive product warranty program

Visit [aymcdonald.com](http://aymcdonald.com) to learn more about our quality product lines, dependable customer service, and more than 158 years of industry-leading expertise.

**More than a brand. We're a family.**

[aymcdonald.com](http://aymcdonald.com) ◆ 1-800-292-2737 ◆ [sales@aymcdonald.com](mailto:sales@aymcdonald.com)





A.Y. McDonald Mfg. Co. is a leading manufacturer of Waterworks Brass, Plumbing Valves, Pumps and Water Systems, and High Pressure Gas Valves and Meter Bars. The Company has distinguished itself with a proud tradition of quality and reliability since its founding in 1856.

The mission of A.Y. McDonald Mfg. Co., in the words of our founder, is “to make good products and sell them honestly.” We, the stockholders and employees, accomplish this by extending the McDonald family culture through excellent customer service and by focusing on our customers’ needs.



WARNING: It is unlawful in CALIFORNIA & VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380.

