

# Environmental Submersible Pumps

## **Grundfos 85S Teflon® Retrofitted Submersible Pumps**

These Grundfos submersible pumps are made of stainless steel and retrofitted with Teflon® to handle the rigors of contaminated groundwater pumping and continuous operation in remediation applications. Built to deliver optimum efficiency during periods of high demand, all Grundfos pumps provide low, long-term operating costs and high operating reliability regardless of the application.

Grundfos Teflon® retrofitted submersibles meet government guidelines for environmental equipment and have been proven through extensive use in the field.

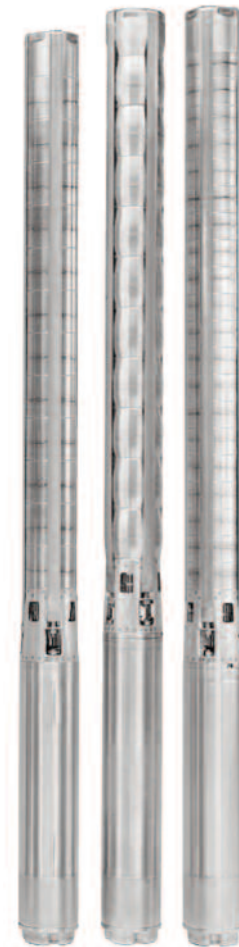
### FEATURES

- **Made For 6" (15 cm) and Larger Wells**  
Flow rates of 18 to 118 GPM (68.1 to 446.7 LPM).
- **State-of-the-art Hydraulics**  
Pump efficiency is maximized by constant improvement of the high-performance hydraulic design, and precise manufacturing process.
- **Manufactured With High-grade Stainless Steel**  
Rugged stainless steel construction inside and out resists corrosion and attack from aggressive liquids.
- **Wear-resistant Design**  
Designed to flush abrasive particles from the pump, and made from stainless steel to resist wear caused by abrasives.
- **Built-in Check Valve**  
Prevents back-flow into the well once the pump is shut down.
- **User Friendly Cable Guard For Easy Installation**
- **1½ to 50 HP Motors**  
Stainless steel construction and quality design.
- **Motor Controls and Protection**  
Available controls to protect the motor against burnout and dry-running, plus the ability to monitor the system allowing the user to optimize settings.

### OPERATION

Typical clean-up operations include water table depression techniques to isolate and remove dissolved contaminants.

With correct placement of the recovery well and proper sizing of the depression pump, the water table is depressed to stop and reverse the movement of the contamination plume. Once isolated, the contaminant is removed for treatment, re-use, or proper disposal.



**GRUNDFOS** 

*Geotech is a Certified  
Grundfos Master Distributor*

**CALL GEOTECH TODAY (800) 833-7958**

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DIMENSIONS & WEIGHTS

Model No.	Fig.	HP	Motor Size		Discharge Size	Dimensions										Approximate Shipping Wt.	
			In.	CM		A		B		C		D		E		Lbs.	Kg
			In.	CM		In.	CM	In.	CM	In.	CM	In.	CM	In.	CM		
85S15-1	A	1½	4	10	3" NPT	25.9	65.8	13.6	34.5	12.3	31.2	3.75	9.5	5.2	13.2	37	16.8
85S30-2	A	3	4	10	3" NPT	35.3	89.7	20.6	52.3	14.7	37.3	3.75	9.5	5.2	13.2	61	27.7
85S50-3	A	5	4	10	3" NPT	40.7	103.4	23.6	59.9	17.1	43.4	3.75	9.5	5.2	13.2	75	34.0
85S50-4	A	5	4	10	3" NPT	43.1	109.5	23.6	59.9	19.5	49.5	3.75	9.5	5.2	13.2	77	34.9
85S75-5	A	7½	4	10	3" NPT	51.5	130.8	29.6	75.2	21.9	55.6	3.75	9.5	5.2	13.2	95	43.1
85S75-6	A	7½	4	10	3" NPT	53.9	136.9	29.6	75.2	24.3	61.7	3.75	9.5	5.2	13.2	97	44.0
85S100-7	A	10	4	10	3" NPT	70.5	179.1	43.9	111.5	26.6	67.6	3.75	9.5	5.2	13.2	151	68.5
85S100-8	A	10	4	10	3" NPT	72.9	185.2	43.9	111.5	29	73.7	3.75	9.5	5.2	13.2	154	69.9
85S100-9	A	10	4	10	3" NPT	75.3	191.3	43.9	111.5	31.4	79.8	3.75	9.5	5.2	13.2	156	70.8
85S75-5	A	7½	6	15	3" NPT	46.7	118.6	24.2	61.5	22.5	57.2	5.38	13.7	5.6	14.2	135	61.2
85S75-6	A	7½	6	15	3" NPT	49.1	124.7	24.2	61.5	24.9	63.2	5.38	13.7	5.6	14.2	137	62.1
85S100-7	A	10	6	15	3" NPT	52.7	133.9	25.4	64.5	27.3	69.3	5.38	13.7	5.6	14.2	148	67.1
85S100-8	A	10	6	15	3" NPT	55	139.7	25.4	64.5	29.6	75.2	5.38	13.7	5.6	14.2	151	68.5
85S100-9	A	10	6	15	3" NPT	57.4	145.8	25.4	64.5	32	81.3	5.38	13.7	5.6	14.2	153	69.4
85S150-10	A	15	6	15	3" NPT	62.4	158.5	28	71.1	34.4	87.4	5.38	13.7	5.6	14.2	170	77.1
85S150-11	A	15	6	15	3" NPT	64.8	164.6	28	71.1	36.8	93.5	5.38	13.7	5.6	14.2	174	78.9
85S150-12	A	15	6	15	3" NPT	67.2	170.7	28	71.1	39.2	99.6	5.38	13.7	5.6	14.2	176	79.8
85S150-13	A	15	6	15	3" NPT	69.6	176.8	28	71.1	41.6	105.7	5.38	13.7	5.6	14.2	178	80.7
85S200-14	A	20	6	15	3" NPT	74.5	189.2	30.6	77.7	43.9	111.5	5.38	13.7	5.6	14.2	193	87.5
85S200-15	A	20	6	15	3" NPT	76.9	195.3	30.6	77.7	46.3	117.6	5.38	13.7	5.6	14.2	198	89.8
85S200-16	A	20	6	15	3" NPT	79.3	201.4	30.6	77.7	48.7	123.7	5.38	13.7	5.6	14.2	200	90.7
85S200-17	A	20	6	15	3" NPT	81.7	207.5	30.6	77.7	51.1	129.8	5.38	13.7	5.6	14.2	202	91.6
85S200-18	A	20	6	15	3" NPT	84.1	213.6	30.6	77.7	53.5	135.9	5.38	13.7	5.6	14.2	204	92.5
85S250-19	A	25	6	15	3" NPT	88.9	225.8	33.1	84.1	55.8	141.7	5.38	13.7	5.6	14.2	240	108.9
85S250-20	A	25	6	15	3" NPT	91.9	233.4	33.1	84.1	58.8	149.4	5.38	13.7	5.6	14.2	244	110.7
85S250-21	A	25	6	15	3" NPT	94.3	239.5	33.1	84.1	61.2	155.4	5.38	13.7	5.6	14.2	246	111.6
85S250-22	A	25	6	15	3" NPT	96.7	245.6	33.1	84.1	63.6	161.5	5.38	13.7	5.6	14.2	249	112.9
85S300-23	A	30	6	15	3" NPT	101.9	258.8	35.7	90.7	66.2	168.1	5.38	13.7	5.6	14.2	264	119.7
85S300-24	A	30	6	15	3" NPT	104.1	264.4	35.7	90.7	68.4	173.7	5.38	13.7	5.6	14.2	266	120.7
85S300-25	A	30	6	15	3" NPT	106.4	270.3	35.7	90.7	70.7	179.6	5.38	13.7	5.6	14.2	271	122.9
85S300-26	A	30	6	15	3" NPT	108.8	276.4	35.7	90.7	73.1	185.7	5.38	13.7	5.6	14.2	23	10.4
85S300-27	A	30	6	15	3" NPT	116.3	295.4	40.8	103.6	75.5	191.8	5.38	13.7	5.6	14.2	278	126.1
85S400-28	A	40	6	15	3" NPT	118.7	301.5	40.8	103.6	77.9	197.9	5.38	13.7	5.6	14.2	281	127.5
85S400-29	A	40	6	15	3" NPT	121.1	307.6	40.8	103.6	80.3	204.0	5.38	13.7	5.6	14.2	283	128.4
85S400-30	A	40	6	15	3" NPT	123.4	313.4	40.8	103.6	82.6	209.8	5.38	13.7	5.6	14.2	287	130.2
85S400-33*	B	40	6	15	3" NPT	139.7	354.8	40.8	103.6	98.9	251.2	5.38	13.7	6.9	17.5	343	155.6
85S400-36*	B	40	6	15	3" NPT	146.9	373.1	40.8	103.6	106.1	269.5	5.38	13.7	6.9	17.5	354	160.6
85S500-39*	B	50	6	15	3" NPT	171	434.3	57.8	146.8	113.2	287.5	5.38	13.7	6.9	17.5	448	203.2
85S400-33*	B	40	8	20	3" NPT	134.7	342.1	35.8	90.9	98.9	251.2	7.5	19.1	6.9	17.5	377	171.0
85S400-36*	B	40	8	20	3" NPT	141.9	360.4	35.8	90.9	106.1	269.5	7.5	19.1	6.9	17.5	390	176.9
85S400-39*	B	50	8	20	3" NPT	152	386.1	38.8	98.6	113.2	287.5	7.5	19.1	6.9	17.5	498	225.9

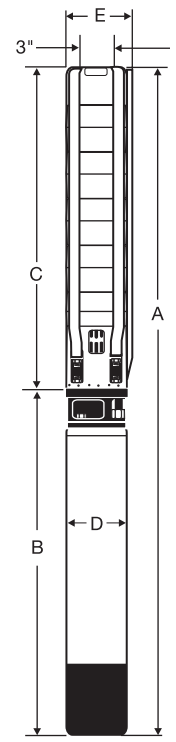


Fig. A

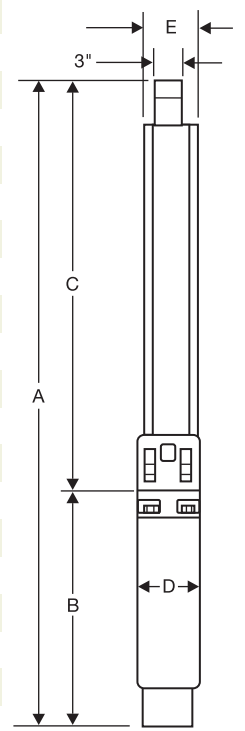


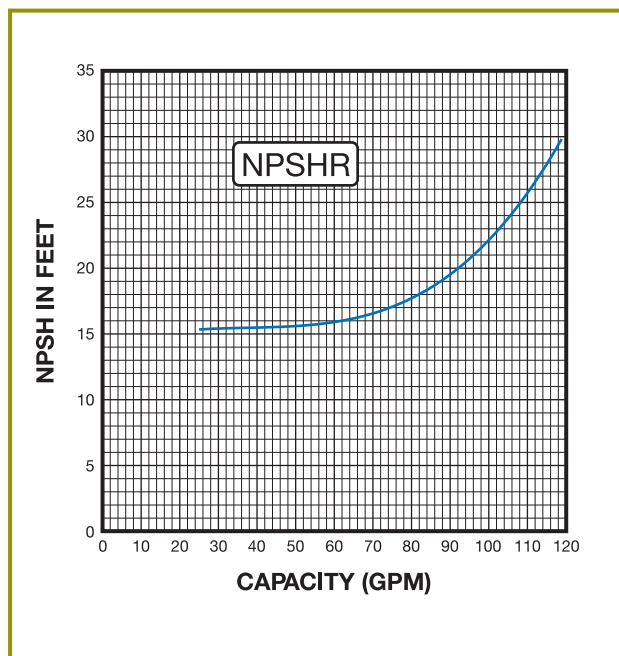
Fig. B

NOTES: All models suitable for use in 6" (15 cm) wells, unless otherwise noted.  
 Weights include pump end with motor in lbs.  
 \*Built into sleeve 3" NPT discharge, 8" (20 cm) minimum well diameter.

**MATERIALS OF CONSTRUCTION**

COMPONENT	CYLINDRICAL SHAFT (1- 39 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Seal Ring Support	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Priming Inducer	304 Stainless Steel
Coupling	316/329 Stainless Steel**
Pump Shaft	431 Stainless Steel
Intermediate Bearings	Teflon
Impeller Seal Ring	Teflon
Check Valve Seat	NBR/316 Stainless Steel
Upthrust Disc	Carbon/Graphite
Upthrust Stop Washer	304 Stainless Steel
8" Motor Adaptor Plate	304 Stainless Steel
Sleeve *	316 Stainless Steel
Sleeve Flange*	316 Stainless Steel

NOTES: Specifications are subject to change without notice.  
 \* Required for 33-39 stages.  
 \*\* 4" Coupling made of 316 Stainless Steel



**Model 85S Teflon Retrofitted**

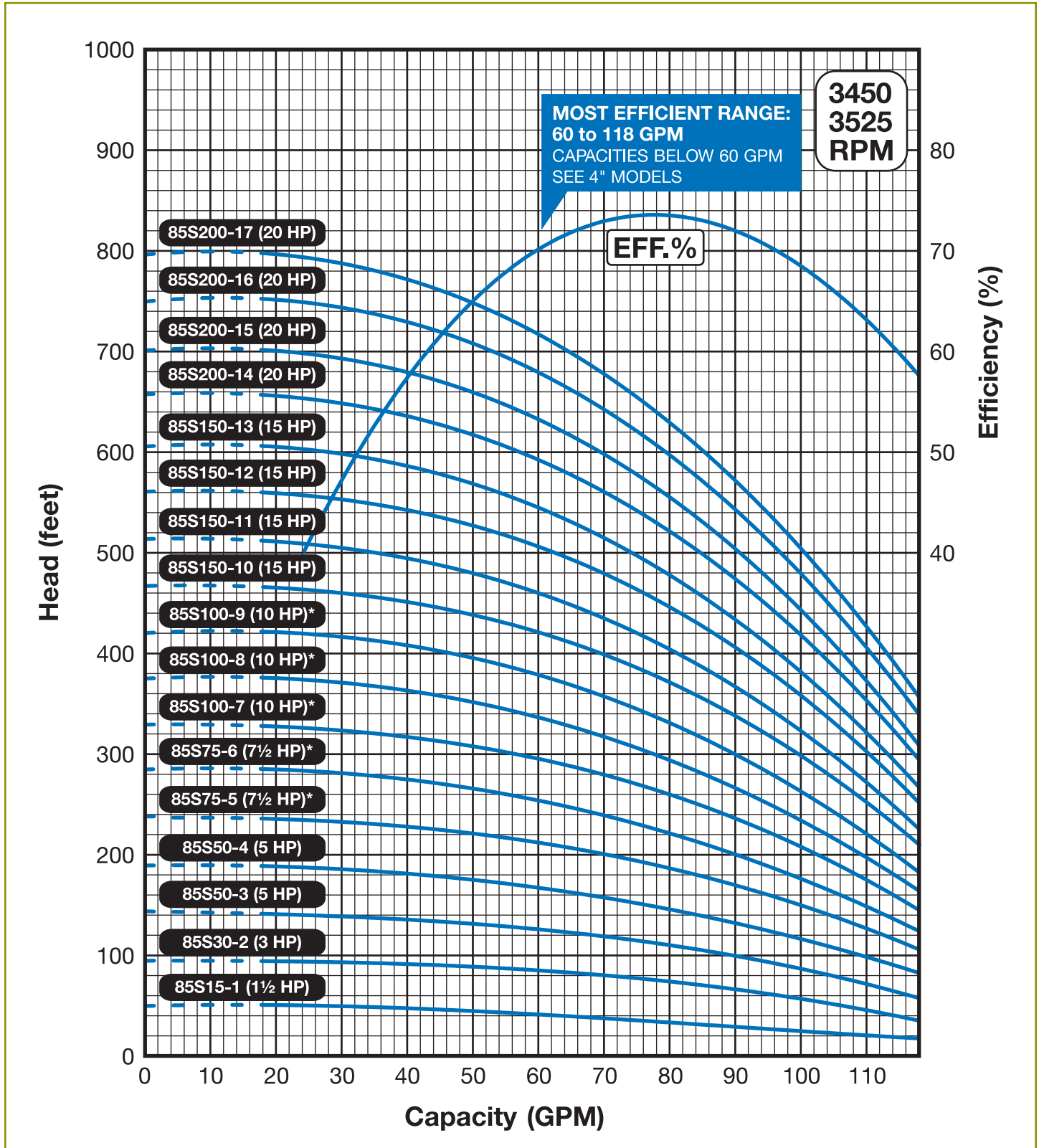
**85 GPM (321.8 LPM)**

**Technical Data**

FLOW RANGE: 18 - 118 GPM

OUTLET SIZE: 3" NPT

NOMINAL DIA. 6"

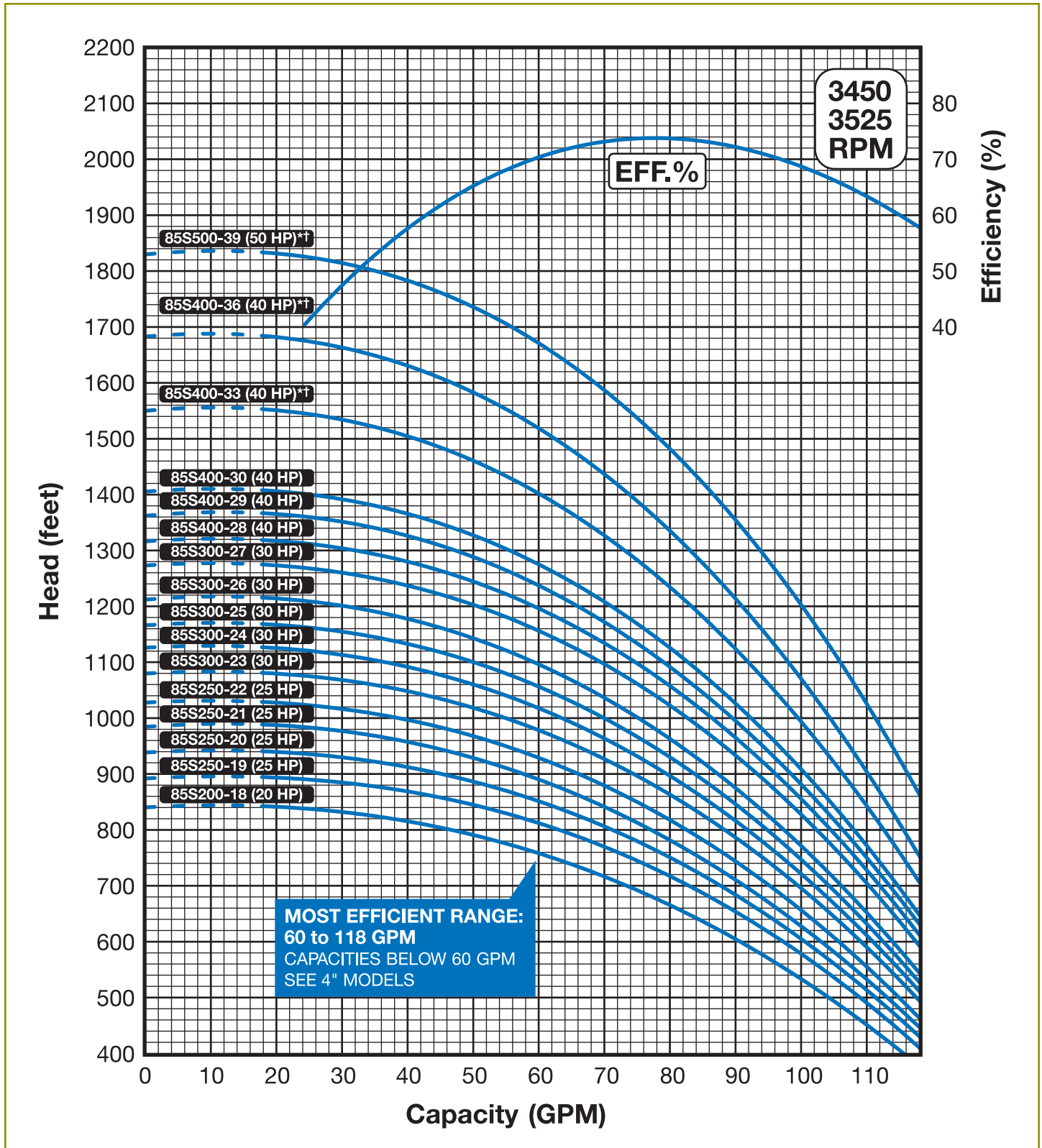


Specifications subject to change without notice.  
4" motor standard, 1.5-5 HP/3450 RPM.  
6" motor standard, 7.5-50 HP/3450 RPM.  
\* Alternate motor sizes available.  
Performance conforms to ISO 9906 Annex A @ 5 ft. minimum submergence.

FLOW RANGE: 18 - 118 GPM

OUTLET SIZE: 3" NPT

NOMINAL DIA. 6"



Specifications subject to change without notice.

6" motor standard, 7.5-50 HP/3450 RPM.

\* Built into sleeve 3" male NPT discharge/8" minimum well diameter.

† Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A @ 5 ft. minimum submergence.