

# Environmental Submersible Pumps

## **Grundfos 230S 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.

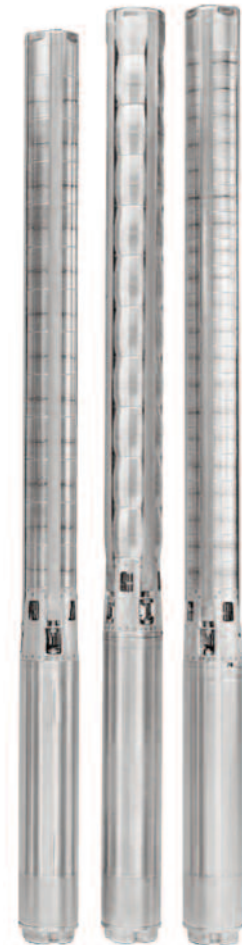
### FEATURES

- **Made For 6" (15 cm) and Larger Wells**  
Flow rates of 160 to 320 GPM (605.7 to 1211.3 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**
- **2 to 75 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
230S20-1B	A	2	4	10	3" NPT	29.7	75.4	15.1	38.4	14.6	37.1	3.8	9.7	5.7	14.5	44	20.0
230S30-1A	A	3	4	10	3" NPT	38.2	97.0	23.6	59.9	14.6	37.1	3.8	9.7	5.7	14.5	55	24.9
230S50-1	A	5	4	10	3" NPT	44.2	112.3	29.6	75.2	14.6	37.1	3.8	9.7	5.7	14.5	65	29.5
230S50-2AB	A	5	4	10	3" NPT	48.5	123.2	29.6	75.2	18.9	48.0	3.8	9.7	5.7	14.5	71	32.2
230S75-2	A	7½	4	10	3" NPT	48.5	123.2	29.6	75.2	18.9	48.0	3.8	9.7	5.7	14.5	88	39.9
230S75-2	A	7½	4	10	3" NPT	43	109.2	24.2	61.5	18.9	48.0	5.4	13.7	5.7	14.5	124	56.2
230S75-3BB	A	7½	4	10	3" NPT	53.5	135.9	29.6	75.2	23.9	60.7	3.8	9.7	5.7	14.5	96	43.5
230S75-3BB	A	7½	4	10	3" NPT	48.1	122.2	24.2	61.5	23.9	60.7	5.4	13.7	5.7	14.5	96	43.5
230S100-3	A	10	4	10	3" NPT	67.8	172.2	43.9	111.5	23.9	60.7	3.8	9.7	5.7	14.5	146	66.2
230S100-3	A	10	6	15	3" NPT	49.3	125.2	25.4	64.5	23.9	60.7	5.4	13.7	5.7	14.5	140	63.5
230S100-4BC	A	10	4	10	3" NPT	72.3	183.6	43.9	111.5	28.4	72.1	3.8	9.7	5.7	14.5	147	66.7
230S100-4BC	A	10	6	15	3" NPT	53.8	136.7	25.4	64.5	28.4	72.1	5.4	13.7	5.7	14.5	147	66.7
230S150-4	A	15	6	15	3" NPT	56.4	143.3	28	71.1	28.4	72.1	5.4	13.7	5.7	14.5	161	73.0
230S150-5B	A	15	6	15	3" NPT	60.8	154.4	28	71.1	32.8	83.3	5.4	13.7	5.7	14.5	165	74.8
230S200-5	A	20	6	15	3" NPT	63.4	161.0	30.6	77.7	32.8	83.3	5.4	13.7	5.7	14.5	167	75.7
230S200-6	A	20	6	15	3" NPT	67.8	172.2	30.6	77.7	37.3	94.7	5.4	13.7	5.7	14.5	186	84.4
230S200-7C	A	20	6	15	3" NPT	67.8	172.2	30.6	77.7	37.3	94.7	5.4	13.7	5.7	14.5	202	91.6
230S250-7	A	25	6	15	3" NPT	74.9	190.2	33.1	84.1	41.7	105.9	5.4	13.7	5.7	14.5	202	91.6
230S250-8B	A	25	6	15	3" NPT	79.3	201.4	33.1	84.1	46.2	117.3	5.4	13.7	5.7	14.5	209	94.8
230S250-8B	A	25	6	15	3" NPT	79.3	201.4	33.1	84.1	46.2	117.3	5.4	13.7	5.7	14.5	209	94.8
230S250-9BB	A	25	6	15	3" NPT	83.8	212.9	33.1	84.1	50.6	128.5	5.4	13.7	5.7	14.5	228	103.4
230S300-9	A	30	6	15	3" NPT	86.3	219.2	35.7	90.7	50.6	128.5	5.4	13.7	5.7	14.5	228	103.4
230S400-10*	A	40	6	15	3" NPT	95.9	243.6	40.81	103.7	55.1	140.0	5.4	13.7	5.7	14.5	234	106.1
230S400-11*	A	40	6	15	3" NPT	100.3	254.8	40.81	103.7	59.5	151.1	5.4	13.7	5.7	14.5	273	123.8
230S400-12*	A	40	6	15	3" NPT	104.8	266.2	40.81	103.7	64	162.6	5.4	13.7	5.7	14.5	279	126.6
230S400-13*	A	40	6	15	3" NPT	109.2	277.4	40.81	103.7	68.4	173.7	5.4	13.7	5.7	14.5	284	128.8
230S500-14*	A	50	6	15	3" NPT	130.7	332.0	57.83	146.9	72.9	185.2	5.4	13.7	5.7	14.5	388	176.0
230S500-15*	A	50	6	15	3" NPT	135.2	343.4	57.83	146.9	7.3	18.5	5.4	13.7	5.7	14.5	393	178.3
230S500-16*	A	50	6	15	3" NPT	139.6	354.6	57.83	146.9	81.8	207.8	5.4	13.7	5.7	14.5	399	181.0
230S600-17*	A	60	6	15	3" NPT	151.2	384.0	63.83	162.1	87.4	222.0	5.4	13.7	5.7	14.5	438	198.7
230S600-18*	A	60	6	15	3" NPT	155.6	395.2	63.83	162.1	91.8	233.2	5.4	13.7	5.7	14.5	445	201.8
230S600-19*	A	60	6	15	3" NPT	160.1	406.7	63.83	162.1	96.3	244.6	5.4	13.7	5.7	14.5	449	203.7
230S600-17	A	60	8	20	3" NPT	129.2	328.2	41.79	106.1	87.4	222.0	7.5	19.1	7.6	19.3	544	246.8
230S600-18	A	60	8	20	3" NPT	133.6	339.3	41.79	106.1	91.8	233.2	7.5	19.1	7.6	19.3	551	249.9
230S600-19	A	60	8	20	3" NPT	138	350.5	41.79	106.1	96.3	244.6	7.5	19.1	7.6	19.3	555	251.7
230S750-20**	B	75	8	20	4" M-NPT	154.7	392.9	47.41	120.4	107.3	272.5	7.5	19.1	7.6	19.3	634	287.6
230S750-22**	B	75	8	20	4" M-NPT	163.6	415.5	47.41	120.4	116.2	295.1	7.5	19.1	7.6	19.3	681	308.9

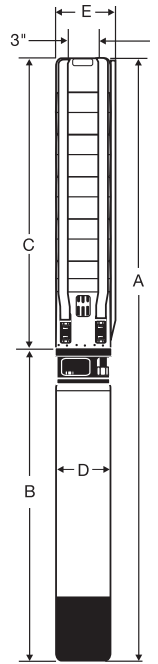


Fig. A

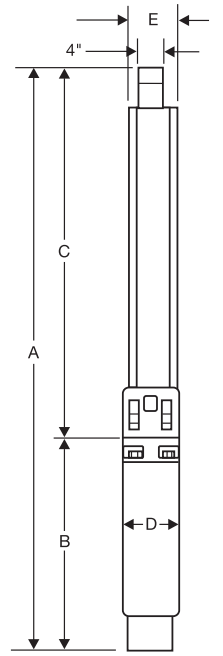


Fig. B

NOTES: All models suitable for use in 6" (15 cm) wells, unless otherwise noted.

Weights include pump end with motor in lbs.

\* Alternate motor sizes available.

\*\*Built into sleeve 4" NPT discharge, 8" (20 cm) motor required.

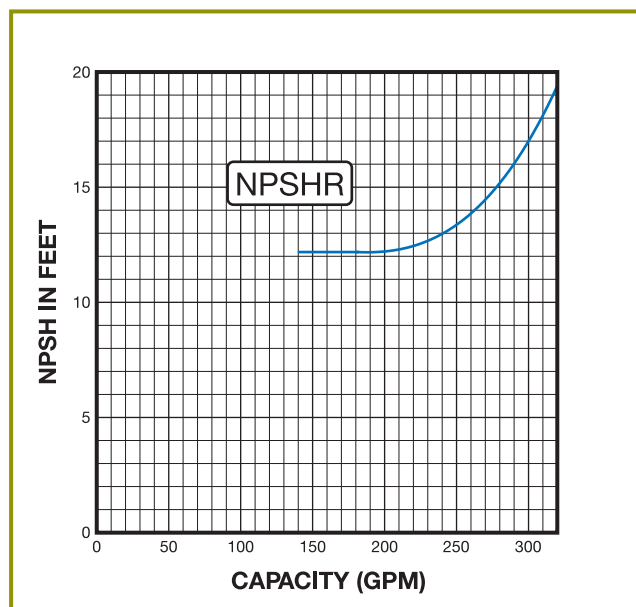
**MATERIALS OF CONSTRUCTION**

COMPONENT	CYLINDRICAL SHAFT (2-18 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
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Coupling	316/329 Stainless Steel**
Pump Shaft	431 Stainless Steel
Intermediate Bearings	Teflon®
Impeller Seal Ring	Teflon/304 Stainless Steel
Check Valve Seat	NBR/316 Stainless Steel
Top/Lower Bearing	Teflon/316 Stainless Steel
8" Motor Adaptor Plate	304 Stainless Steel
Upthrust Washer	Carbon/Graphite HY22
Upthrust stop ring	304 S.S./Tungsten Carbide
Sleeve*	304 Stainless Steel
Sleeve Flange*	304 Stainless Steel

NOTES: Specifications subject to change without notice.

\* Required for 20-22 stage only.

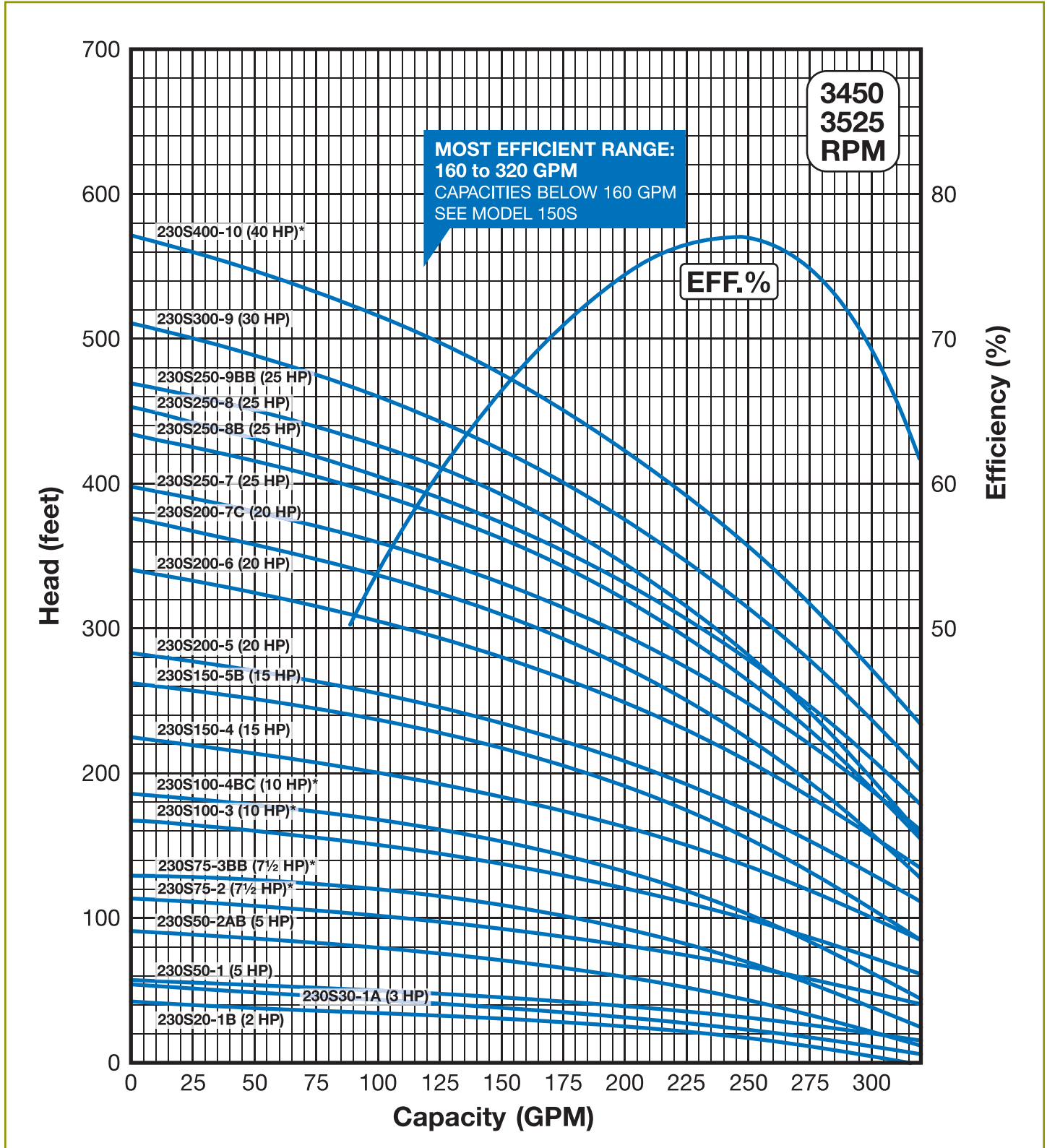
\*\* 4" Coupling made of 316 Stainless Steel.



FLOW RANGE: 160 - 320 GPM

OUTLET SIZE: 3" NPT

NOMINAL DIA. 6"



Specifications subject to change without notice.

4" motor standard, 7.5 HP/3450 RPM.

6" motor standard, 10-60 HP/3450 RPM.

8" motor standard, 75 HP/3525 RPM.

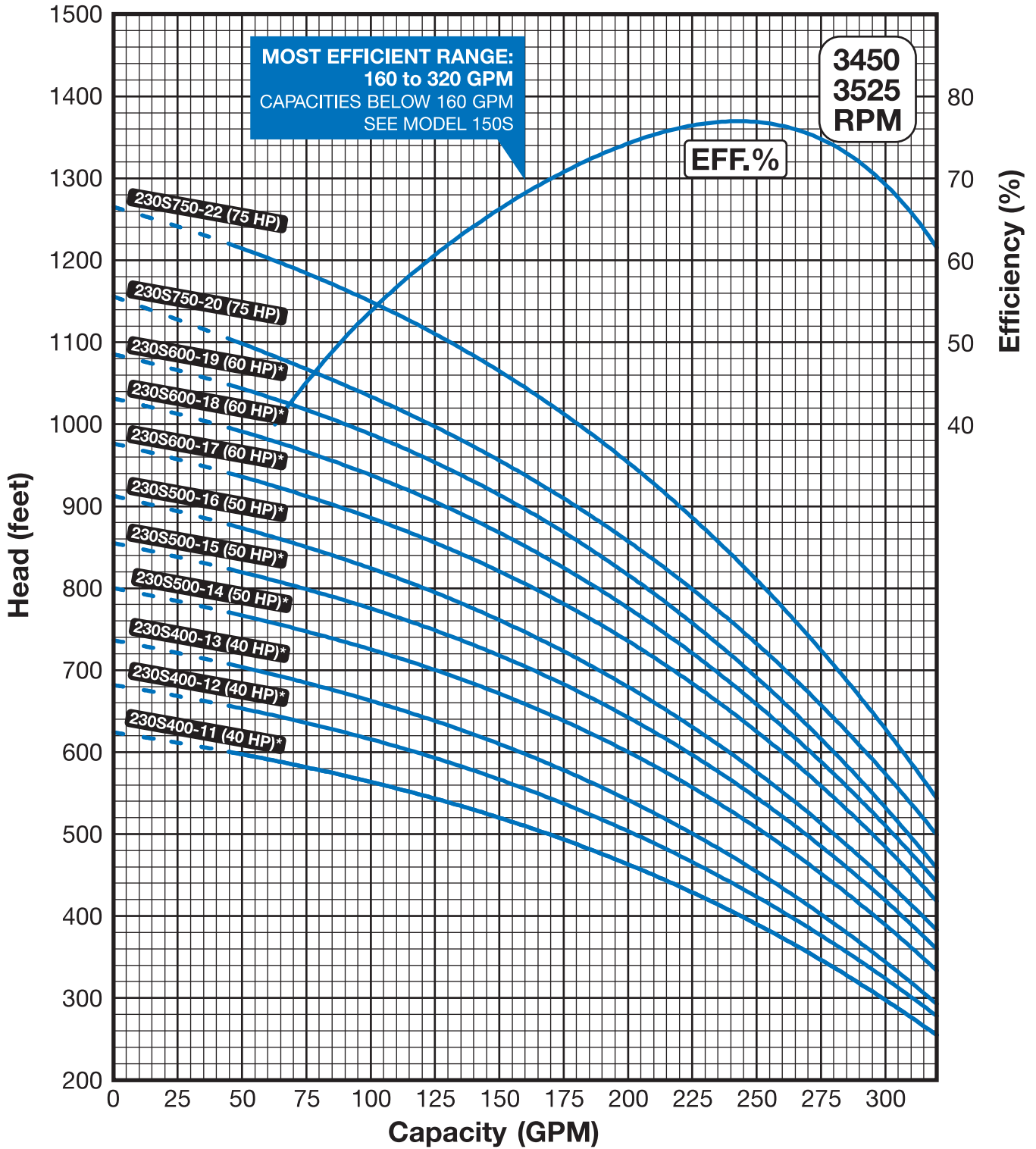
\* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A @ 8 ft. minimum submergence.

FLOW RANGE: 160 - 320 GPM

OUTLET SIZE: 3" NPT

NOMINAL DIA. 6"



Specifications subject to change without notice.

4" motor standard, 7.5 HP/3450 RPM.

6" motor standard, 10-60 HP/3450 RPM.

8" motor standard, 75 HP/3525 RPM.

\* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A @ 8 ft. minimum submergence.