

NOVA  **ESP**

**ELECTRICAL SUBMERSIBLE PUMPS
FOR THE PETROLEUM INDUSTRY**





A MESSAGE FROM MANAGEMENT

I N T R O D U C T I O N

NOVA ESP is a US based company that provides high quality Electrical Submersible Pumps (ESP) parts and equipment for the oil, gas, and water industries. We are known for our robust designs, long life and low cost of ownership. It is the pump of choice for those that require trouble free performance.

ESP parts for pumps from 338 to 1025 are available in different configurations and Motors from 375 up to 562 series in different HP, Voltages and Amps along with Gas separators and intake.

Our Horizontal pump for onshore and offshore application also available on your request.

NOVA ESP is launching its new plant to provide ESP pumps to the oil and gas industry. Our philosophy is to provide unparalleled service, quality cost-effective products and the technological advanced to enhance performance.

In the petroleum industry, success is measured by performance. Our focus is on the pursuit of innovation in the application of petroleum industry electric submersible and surface systems. Our developed high efficiency pumps and motors offer options to abrasion and corrosion resistant materials, advanced down hole and surface monitoring capabilities and improved operating temperature.

We also extended our transfer pump application with horizontal pumping system with low maintenance an excellent alternative for water injection application where high pressure fluids are required.

1- APPLICABILITY

All sales and transactions with Nova ESP (Seller”) are subject to the following standard terms and conditions. Terms and Conditions of Buyer’s order which are in any way in conflict or inconsistent with or in addition to these Standard Terms and Conditions of Sale shall not be binding on Seller and shall not be considered applicable to any sale unless expressly agreed to in writing by Seller.

2- PRICES

All prices, whether herein named or heretofore quoted or proposed are subject to change without notice. Prices do not include packing and preparation of export shipment, inland or ocean freight, insurance or forwarding fees, taxes, or duties of any kind or other similar charges applicable to the products. Buyer agrees to pay such charges incurred by Seller on Buyer’s behalf upon receipt of Seller’s invoice for the same .

3- TERM OF PAYMENT

Unless Seller and Buyer otherwise agree in writing to payment terms other than those specified herein, payment shall be made in U.S.dollars in accordance with remittance instructions furnished by seller.

- A. On orders for shipment to countries, payment shall be made by a letter of Credit to be established by the buyer, at its expense, including and bank confirmation charges. All letters of Credit shall be in favor of and acceptable to Seller, shall be maintained in sufficient amounts and for the period necessary to meet all payment obligations, shall be irrevocable and issued or confirmed by a bank in satisfactory to Seller within thirty (30) days after acceptance of any order, permit partial deliveries, and shall provide for pro-rata payments upon presentation of Seller’s invoices and Seller’s certificate of delivery of products to Buyer at Seller’s factory, or of delivery into storage with certification of cause therefore, and for the payment of any termination charges.
- B. On all other orders payment shall be made within thirty (30) days after date of Seller’s invoice.
- C. Seller may suspend credit to Buyer and may withhold shipment of products ordered if in its sole judgement the financial condition of the Buyer warrants such action.
- D. Past due account which have not been paid within thirty (30) days from date of invoice will be considered in default, and a charge of one and one-half percent per month, eighteen percent per annum, or the maximum allowable amount, which ever is less, may be assessed.

4- SHIPPING, DEVLIVERY, TITLE & RISK OF LOSS

Title and risk of loss will pass to Buyer at the time of delivery specified herein. Buyer will pay, or reimburse Seller for all freight and in-transit insurance costs from time of delivery. Seller shall deliver the products to Buyer at Seller’s dock at its factory, at NOVA repair branch designated by Seller. Partial deliveries shall be permitted. Delivery dates are approximate and are dependent on prompt receipt by Seller of all information necessary to permit Seller to proceed with work immediately and without Interruption.

Buyer shall provide Seller with shipping instructions prior to the products is ready forwarder services and insurance on Buyer’s behalf, or place products in storage. In either even Buyer shall pay all costs incurred by Seller.

5- DELAYS

Seller shall not be liable for delays in delivery or failure to perform due to causes beyond its reasonable control, including but not limited to, acts of God, acts of the Buyer, acts of civil or military authority, fires, labor disputes, war, civil insurrections, delays in transportation, delays in manufacturing and inability of Seller to obtain the goods from usual source, and any other commercial impracticality. In the event of any such delay, the date of delivery shall be deferred for a period equal to the time lost by reason of the delay.

6- LIMITED WARRANTY

Seller warrants that products manufactured by Seller, when properly installed, used and maintained shall be free from defects in material and workmanship. Seller's obligation under this warranty shall be limited to replacing or repairing the part or parts or, at Seller's option, the products which prove to be defective in material or, workmanship within one year from the date of installation or eighteen months from the date of factory shipment, whichever shall occur first, provided the Buyer gives Seller prompt notice of any defect and provides satisfactory proof thereof. Any defective part or parts must be returned freight prepaid by Buyer, to Seller's factory or to an authorized service center designated by Seller for inspection. Seller will deliver any replacements for defective products to Buyer prepaid to the destination provided by the original order. Products returned to the Seller for which Seller provides replacement under this warranty shall become the property of the Seller. With respect to products purchased in Canada for personal use, the implied warranties, including but not limited to the warranty of merchantability and fitness for a particular purpose are limited to twelve months from date of installation.

The forgoing warranties are in lieu of all other warranties, whether oral written, expressed or implied or statutory and seller makes no warranty of fitness or merchant ability, seller's warranty obligations and buyers remedies thereunder are solely and exclusively as stated herein . In no case will seller be liable for consequential or incidental damages, including but not limited to loss of revenue, cost of capital, claims of customers for service, interruptions or failure to supply, and costs and expenses incurred in connection with labor overhead , transportation or substitute facilities or supply sources, labor performed in connection with the removal and replacement of the pumping system within well, loss of production or any other loss incurred because of interruption of service. A new warranty period shall not be established for repaired or replaced parts or products . Such items shall remain under warranty only for remainder of the warranty period on the original product.

The total liability of seller on any claim whether in contract , tort (including whether sole or concurrence) or otherwise arising out of , connected with or resulting from the manufacture, sales , delivery , resale , repair , replacement or use of any product or the furnishing of any services shall not exceed the price allocable to the product or service or part thereof which gives rise to the claim.

This warranty does not apply to : (a) performance caused by abrasive materials, corrosion due to aggressive fluids, lightening, improper voltage supply, mishandling or misapplication: (b) products or parts which are normally consumed in operation, or have a normal life inherently shorter than the warranty period stated herein; (c) alterations or repairs by the buyer done without written approval by the Seller, or accessories not manufactured by Seller .

7- CLAIMS

Claims for damages to or shortages of products must be made within ten days of receipt of products. Seller shall not be responsible for any damage to or shortages of products occurring after delivery.

8- CANCELLATION

Buyer may cancel an order at any time prior to shipment by giving notice to seller. Notice shall be given in the most expeditious means possible and shall be confirmed within five days thereafter, in writing or by telex. Buyer shall pay, upon the cancellation of any order, all costs for materials shipped or work performed prior to receiving cancellation notice plus Seller's cancellation charges. Cancellation charges shall be 10% of the catalog price of the ordered goods but not less than one hundred US dollars (US\$100.00) . If cancelled goods are standard catalog items, the Buyer at the option of the Seller, shall only pay the cancellation charges.

9- RETURNS

The Buyer may return returnable items (metal shipping containers, cable reels, and reel supports) to the Seller's original F.O.B point for credit. Credit will be issued, less any required cleanup and repair charges.

10- WAIVER

Any waiver by Seller of any breach or default by Buyer of any of the Buyer's obligations thereunder, or any failure by Seller to enforce any rights arising hereunder shall not be construed as a waiver of any other or subsequent breach or default by Buyer or of Seller's right to enforce its rights arising hereunder in any circumstances.

11- MISCELLANEOUS

- A. Any sale by Seller to Buyer shall in all respects be construed under and be given legal effect in conformity with the laws of Canada .
- B. Products can be returned for credit only after receiving the Seller's written authorization and shipping instructions.
- C. All quotations of Seller are subject to change at any time prior to acceptance of an order and automatically expire thirty (30) days from the date thereof.
- D. A minimum charge of \$50.00 will be made in the case of any order, the items on which, at the net prices, total less than that amount.
- E. Buyer agrees that the products purchased hereunder will not be reshipped or resold to any person or places prohibited by the laws or regulations of Canada and that it will comply with all Canada export control regulations.

DATA SHEET



DATA SHEET

Data Sheet (Imperial)

Company	
Company:	
Design Requested by:	
Data Reply Required:	

Company	
Well Location or ID/Field:	
Phone/Fax:	
Planned Installation Date:	

Fluid Properties	
Oil API Gravity	°API
Current Water Cut	%
Water Specific Gravity	rel-H ₂ O
Liquid Specific Gravity	rel - H ₂ O
Gas Relative Density	rel- Air
Producing GOR	
Solution GOR	scf/bbl
Bubble Point Pressure	PSI

Temperature Model	
Earth Surface Temp.	°C
Fluid Surface Temp.	°C
Bottom Hole Temp.	°C

Gas Impurities	
Nitrogen (N ₂)	%
Hydrogen Sulphide (H ₂ S)	%
Carbon Dioxide (CO ₂)	%
Chlorides (CT)	ppm

IPR & TEST DATA	
Datum, Vertical Depth	Ft
Top of Perfs/Open Hole	Ft
Static Reservoir Pressure	PSI
Current Test Flow	Bbl/D
Pump Intake Pressure	Psi@above rate

IPR & TEST DATA	
Datum, Vertical Depth	Ft
Top of Perfs/Open Hole	Ft
Static Fluid Level	PSI
Current Test Flow	Bbl/D
Producing Fluid Level	Psi@above rate

Target	
Pump Setting Depth(vert.)	°C
Desired Total Production	°C
Minimum PIP	°C

Surface Pressures	
Tubing Surface Pressure	PSI
Casing Surface Pressure	PSI

NOTES : Attach copy of survey if directional well and copy of IPR/PI graph if available

Data Sheet (Imperial)

WELL DATA			
	Size (Inch)	Weight(ppt)	Landed @ (Ft)
Production Casing			
Production Liner			
Production Tubing		Ft	
True Vertical Depth		Measured Depth	Ft
Producing Formation:		Kick - off Point	Ft
Perforations:			

SPECIAL CONCERNS		
Sand?		%
Paraffin?		Y/N
Scale?		No or Type
Corrosion?		Y/N
Asphaltenes?		Y/N

POWER SUPPLY	
Frequency	Hz
Voltage	Volts
Max. Amps.	Amps

DATA SHEET

Data Sheet (Metric)

Company

Company:	
Design Requested by:	
Data Reply Required:	

Company

Well Location or ID/Field:	
Phone/Fax:	
Planned Installation Date:	

Fluid Properties

Oil API Gravity	°API
Current Water Cut	%
Water Specific Gravity	rel-H ₂ O
Liquid Specific Gravity	rel - H ₂ O
Gas Relative Density	rel- Air
Producing GOR	m ³ /m ³
Solution GOR	m ³ /m ³
Bubble Point Pressure	Psi

Temperature Model

Earth Surface Temp.	°C
Fluid Surface Temp.	°C
Bottom Hole Temp.	°C

Gas Impurities

Nitrogen (N ₂)	%
Hydrogen Sulphide (H ₂ S)	%
Carbon Dioxide (CO ₂)	%
Chlorides (CT)	ppm

IPR & TEST DATA

Datum, Vertical Depth	m
Top of Perfs/Open Hole	m
Static Reservoir Pressure	Kpa
Current Test Flow	m ³ /d
Pump Intake Pressure	Kpa(@above rate)

IPR & TEST DATA

Datum, Vertical Depth	m
Top of Perfs/Open Hole	m
Static Fluid Level	m
Current Test Flow	m ³ /d
Producing Fluid Level	m(from surf.)

Target

Pump Setting Depth(vert.)	m
Desired Total Production	m ³ /d
Minimum PIP	KPa

Surface Pressures

Tubing Surface Pressure	KPa
Casing Surface Pressure	KPa

NOTES : Attach copy of survey if directional well and copy of IPR/PI graph if available

WELL DATA			
	Size (Inch)	Weight(ppt)	Landed @ (Ft)
Production Casing			
Production Liner			
Production Tubing		m	
True Vertical Depth			Measured Depth
Producing Formation:			Kick - off Point
Perforations:			

SPECIAL CONCERNS		
Sand?		%
Paraffin?		Y/N
Scale?		No or Type
Corrosion?		Y/N
Asphaltenes?		Y/N

POWER SUPPLY	
Frequency	Hz
Votage	Volts
Max. Amps.	Amps

Thank you for inquiring our pumping equipment and services .

ENGINEERING DATA



Nominal	OD	Thread	Weight Lb/Ft	OD	ID	Drift	Coupling OD(in)
API TUBING (Non Upset):							
1-1/2"		10RD	2.75	1.900	1.610	1.516	2.200
2"	2-3/8"	10RD	4.00	2.375	2.041	1.947	2.875
2-1/2"	2-7/8"	10RD	6.40	2.875	2.441	2.347	3.500
3"	3-1/2"	10RD	7.70	3.500	3.068	2.943	4.250
3-1/2"	4"	8RD	9.50	4.000	3.548	3.423	4.750
4"	4-1/2"	8RD	12.60	4.500	3.958	3.833	5.200

API Tubing (External Upset)							
1-1/2"		10RD	2.90	1.900	1.610	1.516	2.500
2"	2-3/8"	8RD	4.70	2.375	1.995	1.901	3.063
2-1/2"	2-7/8"	8RD	6.50	2.875	2.441	2.347	3.688
3"	3-1/2"	8RD	9.30	3.500	2.992	2.867	4.500
3-1/2"	4"	8RD	11.00	4.000	3.476	3.351	5.000
4"	4-1/2"	8RD	12.75	4.500	3.958	3.833	5.563

API Tubing (External Upset)							
4-1/2"	8RD	9.50	4.500	4.090	3.965	5.000	
	8RD	11.60	4.500	4.000	3.875	5.000	
	8RD	13.50	4.500	3.920	3.795	5.000	
5-1/2"	8RD	14.00	5.500	5.012	4.887	6.050	
	8RD	15.50	5.500	4.940	4.825	6.050	
	8RD	17.00	5.500	4.892	4.767	6.050	
	8RD	20.00	5.500	4.778	4.653	6.050	
	8RD	23.00	5.500	4.670	4.545	6.050	
6-5/8"	8RD	17.00	6.625	6.135	6.010	7.390	
	8RD	24.00	6.625	5.921	5.795	7.390	
7"	8RD	20.00	7.000	6.456	6.331	7.656	
	8RD	23.00	7.000	6.366	6.241	7.656	
	8RD	26.00	7.000	6.276	6.151	7.656	
	8RD	29.00	7.000	6.184	6.059	7.656	
	8RD	32.00	7.000	6.094	5.969	7.656	
8-5/8"	8RD	28.00	8.625	8.017	7.892	9.625	
	8RD	36.00	8.625	7.825	7.700	9.625	
	8RD	40.00	8.625	7.725	7.600	9.625	
	8RD	44.00	8.625	7.625	7.500	9.625	
9-5/8"	8RD	36.00	9.625	8.921	8.765	10.625	
	8RD	40.00	9.625	8.835	8.679	10.625	
	8RD	43.50	9.625	8.733	8.599	10.625	
	8RD	47.00	9.625	8.681	8.525	10.625	
10-5/8"	8RD	40.50	10.750	10.050	9.894	11.750	
	8RD	55.50	10.750	9.760	9.604	11.750	
	8RD	48.00	13.375	12.715	12.559	14.375	
13-3/8"	8RD	48.00	13.375	12.715	12.559	14.375	
	8RD	68.00	13.375	12.415	12.559	14.375	

Gravity Conversion Table Cont.

Degress API	Specific Graviyty	Weight (Density)			Fluid Head		Buoyancy Factor
		Gallon	Cubic Feet	Barrel	Pressure	Height Per Pound	
60	0.739	6.16	46.1	259	0.320	3.13	0.906
59	0.743	6.20	46.4	260	0.322	3.11	0.905
58	0.747	6.23	46.6	262	0.324	3.09	0.905
57	0.751	6.26	46.8	263	0.325	3.08	0.904
56	0.755	6.30	47.1	265	0.327	3.06	0.904
55	0.759	6.33	47.4	266	0.329	3.04	0.903
54	0.763	6.36	47.6	267	0.330	0.03	0.903
53	0.767	6.40	47.9	269	0.332	0.01	0.902
52	0.771	6.43	48.1	270	0.334	2.99	0.902
51	0.775	6.46	48.3	271	0.336	2.98	0.901
50	0.780	6.51	48.7	273	0.338	2.96	0.901
49	0.784	6.54	48.9	275	0.340	2.94	0.900
48	0.788	6.57	49.2	276	0.341	2.93	0.900
47	0.793	6.61	49.5	278	0.343	2.92	0.899
46	0.797	6.65	49.8	279	0.345	2.90	0.898
45	0.802	6.69	50.0	281	0.348	2.87	0.898
44	0.806	6.72	50.3	282	0.349	2.87	0.897
43	0.811	6.76	50.6	284	0.351	2.85	0.897
42	0.816	6.81	50.9	286	0.354	2.82	0.896
41	0.820	6.84	51.2	287	0.355	2.82	0.896
40	0.825	6.88	51.5	289	0.357	2.80	0.895
39	0.830	6.92	51.8	291	0.359	2.79	0.894
38	0.835	6.96	52.1	292	0.362	2.76	0.894
37	0.840	7.01	52.4	294	0.364	2.75	0.893
36	0.845	7.05	52.7	296	0.366	2.73	0.892
35	0.850	7.09	53.0	298	0.368	2.72	0.892
34	0.855	7.13	53.3	299	0.370	2.70	0.891
33	0.860	7.17	53.6	301	0.372	2.69	0.891
32	0.865	7.21	53.9	303	0.375	2.67	0.890
31	0.871	7.26	54.3	305	0.377	2.65	0.889
30	0.876	7.31	54.7	307	0.380	2.63	0.889
29	0.882	7.36	55.1	309	0.382	2.62	0.887
28	0.887	7.40	55.4	311	0.384	2.60	0.887
27	0.893	7.45	55.7	313	0.387	2.58	0.886
26	0.898	7.49	56.0	315	0.389	2.57	0.886
25	0.904	7.54	56.4	317	0.392	2.55	0.885
24	0.910	7.59	56.8	319	0.394	2.54	0.884
23	0.916	7.64	57.2	321	0.397	2.52	0.883
22	0.922	7.69	57.55	323	0.399	2.51	0.883
21	0.928	7.74	57.9	325	0.402	2.49	0.882

Gravity Conversion Table Cont.

Degress API	Specific Gravyty	Weight (Density)			Fluid Head		Buoyancy Factor Totally Immersed
		Gallon	Cubic Feet Pounds	Barrel	Pressure Per Feet LB/SQ In	Height Per Pound Feet	
20	0.934	7.79	58.3	327	0.405	2.47	0.881
19	0.940	7.84	58.7	329	0.507	2.46	0.880
18	0.946	7.89	59.0	331	0.410	2.44	0.879
17	0.953	7.95	59.5	334	0.413	2.42	0.879
16	0.959	8.00	59.8	336	0.416	2.40	0.878
15	0.966	8.06	60.3	339	0.419	2.39	0.877
14	0.973	8.11	60.7	341	0.421	2.38	0.876
13	0.979	8.16	61.0	343	0.424	2.36	0.875
12	0.986	8.22	61.5	345	0.427	2.34	0.874
11	0.993	8.28	61.9	348	0.430	2.33	0.874
Pure Water	1.000	8.34	62.4	350	0.433	2.31	0.873
	1.010	8.40	62.8	353	0.436	2.29	0.872
	1.030	8.60	64.3	361	0.447	2.24	0.869
	1.060	8.80	65.8	370	0.457	2.19	0.866
	1.080	9.00	67.3	378	0.468	2.14	0.862
	1.100	9.20	68.8	386	0.478	2.09	0.860
	1.130	9.40	70.3	395	0.488	2.05	0.856
	1.150	9.60	71.8	403	0.499	2.00	0.853
	1.154	9.63	72.0	404	0.500	2.00	0.853
	1.180	9.80	73.3	414	0.509	1.96	0.850
	1.200	10.00	74.8	420	0.519	1.93	0.847
	1.220	10.20	76.3	428	0.530	1.89	0.844
	1.250	10.40	77.8	437	0.540	1.85	0.841
	1.270	10.60	79.3	445	0.551	1.81	0.838
	1.290	10.80	80.8	454	0.561	1.78	0.835
	1.320	11.00	82.3	462	0.571	1.75	0.832
	1.340	11.20	83.8	470	0.582	1.72	0.829
	1.370	11.40	85.3	479	0.592	1.69	0.826
	1.390	11.60	86.8	487	0.603	1.66	0.823
	1.410	11.80	88.3	496	0.613	1.63	0.820
	1.440	12.00	89.8	504	0.623	1.61	0.817
	1.460	12.20	91.3	512	0.634	1.58	0.814
	1.490	12.40	92.8	521	0.644	1.55	0.810
	1.510	12.60	94.3	529	0.655	1.53	0.808
	1.530	12.80	95.3	538	0.665	1.50	0.804
	1.560	13.00	97.2	546	0.675	1.48	0.801
	1.580	13.20	98.7	554	0.686	1.46	0.798
	1.610	13.40	100.0	563	0.696	1.44	0.795
	1.630	13.60	102.0	571	0.706	1.42	0.792
	1.650	13.80	103.0	580	0.717	1.39	0.789

Figures shown above assume standard temperature and pressure; both liquids (oil and water as reference standard) are measured at 60°F at a pressure of 1 atmosphere.

Specific Gravity = $141.5 / (131.5 + \text{Degrees API})$
 Fluid Gradient (PSI/Ft.) = Specific Gravity $\times 0.433$ PSI/Ft.
 Fluid Gradient (PSI/Ft.) = $0.052 \times \text{Density Lbs./Gal.}$

Electrical Terms And Definitions	
Ampere	Unit of current or rate of flow of electricity
AWG	American Wire Gauge (size)
KV	1,000 volts
Volt	unit of electromotive force.
Ohm	Unit of resistance (Direct and Alternating Current) unit of impedance (Alternating Current)
Impedance	vector sum of resistance and reactance in an Alternating current circuit
Ohm's Law	Current = Electromotive Force / Resistance (Direct Current) Current = Electromotive Force / Resistance (Alternating Current) Ohms= volts / Amperes
Volt Amperes	unit of apparent power = Volts x Amps for single Phase Power = Volts x Amps x 1.73 for Three Phase Power
Megohm	1,000,000 Ohms
Watt	unit of true power = Volts x Amps x Power Factor
KW	1,000 wats
Power Factor	ratio of true power to apparent power
Watt-hour	unit of electrical work; Indicates the expenditure of electrical power amounting to one waft for one hour
Horsepower	a measure of time-rate of doing work; Equivalent to raising 33,000 pounds one foot in one minute Equivalent to raising 4,561 Kilograms one meter in one minute One Horsepower 746 Wafts

Formulas for Determining Kilowatts, KVA ,Horspower and Amperes

Kilowatts	$\frac{\text{Volts} \times \text{Amps} \times \text{Pf}}{1000}$	$\frac{1.732 \times \text{Volts} \times \text{Amps} \times \text{Pf}}{1000}$
Kilovolt-Ampere	$\frac{\text{Volts} \times \text{Amps}}{1000}$	$\frac{1.732 \times \text{Volts} \times \text{Amps}}{1000}$
Horsepower (Output)	$\frac{\text{Volts} \times \text{Ams} \times \text{Eff} \times \text{Pf}}{746 \times 100}$	$\frac{1.732 \times \text{Volts} \times \text{Amps} \times \text{Eff} \times \text{Pf}}{746 \times 1000}$
Amperes (When HP is known)	$\frac{\text{HP} \times 746}{\text{Volts} \times \text{Eff} \times \text{Pf}}$	$\frac{\text{HP} \times 746}{1.732 \times \text{Volts} \times \text{Eff} \times \text{Pf}}$
Amperes (When Kilowatts are known)	$\frac{\text{Kilowatts} \times 1000}{\text{Volts} \times \text{Pf}}$	$\frac{\text{Kilowatts} \times 1000}{1.732 \times \text{Volts} \times \text{Pf}}$

Multiply	By	To Obtain
FLOW		
Gallons/Min	34.286	Barrels/Day
Gallon/Min	1.429	Barrels/Hour
Cubic Feet/Min	10.689	Barrels/Hour
M3/Hour	150.972	Barrels/Day
Gallons/Min	8.0208	Cubic Feet/Hour
Liter/Min	0.0005885	Cubic Feet/Sec
Gallons/Min	0.002228	Cubic Feet/Sec
Barrels Per Day	0.02917	Gallons/Minute
Barrels Per Hour	0.700	Gallons/Minute
Cubic Feet/Sec	448.831	Gallons/Minute
MI/Hour	4.4033	Gallons/Minute
Cubic feet/Min	0.1247	Gallons/Minute
Gallons/Min	0.06309	Liters/Sec
Cubic Feet/Min	1.6957	Cubic Meters/Hour

PRESSURE		
Cm.of Mercury	0.01316	Atmospheres
Inches of Mercury	0.03342	Atmospheres
Kilogram Sq Cm	0.9678	Atmospheres
Lbs/Sq Inch	0.6805	Atmospheres
Atmosphere	1.01325	BAR
Kilopascal	100.0	BAR
Joule	0.73756	Ft.Lbs.(Force)
Atmosphere	29.92	Inches Mercury
Lbs Sq Inch	2.036	Inches of Mercury
Kilogram Sq Cm	28.96	Inches of Mercury
Lbs Sq Inch	0.07031	Kgs./Sq.Cm
Inch of Mercury	0.03453	Kgs./Sq.Cm
Atmosphere	1.0332	Kgs./Sq.Cm
Lbs Sq Foot	0.0004882	Kgs./Sq.Cm
Cm of Mercury	135.95	Kgs./Sq.Aq Meter
Lbs Sq Inch	6.8948	Kilopascal
Kilograms Sq Cm	2048.0	Lbs./Sq.Foot
Kilograms Sq Cm	14.223	Lbs./Sq. Inch
Cm of Mercury	0.1934	Lbs./Sq. Inch
Inches of Mercury	0.4912	Lbs./Sq. Inch
Kilopascal	0.14504	Lbs./Sq. Inch
BAR	14504	PSI

AREA		
Square Inch	6.4516	Square
Square Meter	10.764	Centimeter
Square Foot	0.0929	Square Feet
		Square Meter

Multiply	By	To Obtain
VOLUME		
Gallon (U.S.)	0.02381	Barrel(Oil)
Cubic Feet	0.1781	Barrels
Cubic Meter	6.289	Barrels
Ton (Metric)	7.454	Barrels(36API)
Cubic Inch	16.387	Cubic Centimeters
Cubic Centimeter	0.00003531	Cubic Feet
Liter	0.03531	Cubic Feet
Barrel	5.6164	Cubic Feet
Cubic Metric	35.315	Cubic Feet
Liter	61.02	Cubic Inches
Barrel	0.15898	Cubic Meter
Cubic Yard	0.7646	Cubic Meter
Gallon (U.S.)	0.003785	Cubic Meter
Cubic Feet	0.02832	Cubic Meter
Cubic Meter	1.308	Cubic Yards
Gallon (U.S.)	0.00495	Cubic Yards
Liter	0.2642	Gallons
Cubic Meter	264.17	Gallons
Cubic Feet	7.48052	Gallons
Cubic Yard	201.97	Gallons
Barrel (Oil)	42.0	Gallons(U.S.)
Gallon(U.S.)	0.83267	Gallons(Imperial)
Gallon (Imperial)	1.20095	Gallons(U.S.)
Quart (Liquid)	0.946	Liter
Cubic Foot	28.32	Liter
Cubic inch	0.01639	Liter
Barrel 36*API	0.1342	Metric Ton
Cubic Centimeter	0.002113	Pints (Liquid)
Gallon Water (U.S.)	8.338	Pounds of Water
Liter	1.057	Quarts (Liquid)

HEAD		
Feet of Water	0.02945	Atmospheres
Inch of Water	0.002454	Atmospheres
Feet of Water	0.8811	Inches of Mercury
Pound/Foot	1.4882	Kgs./Meter
Feet of Water	0.03042	Kgs./Sq.Cm.
Kilogram/Meter	0.6720	Lbs./Ft.
Feet of Water	0.4328	Lbs./Sq.In.

NOTES : Attach copy of survey if directional well and copy of IPR/PI graph if available

Multiply	By	To Obtain
WEIGHT AND DENSITY		
Foot	30.48	Centimeters
Inch	2.540	Centimeters
Kilometer	3281.0	Feet
Meter	3.281	Feet
Meter	39.37	Inches
Centimeter	3.3937	Inches
Mile	1.609	Kilometers
Foot	0.3048	Meters
Kilometer	0.6214	Meters
Meter	1.094	Yards
Ounce	16.0	Drams
Dram	27.34375	Grains
Gram/Liter	58.417	Grains/Gallon
Pound/Cubic Foot	0.01602	(U.S.)
Pound/Cubic Inch	27680.00	Grams/Cubic Cm
Pound/Cubic Foot	16.02	Kgs./Cubic Meter
Pound	0.45359	Kgs./Cubic Meter
Ton (Short)	907.184886	Kilograms
Part/Million	8.328	Kilograms
Grain (Troy)	0.0022857	Lbs./Million Gal.
Pound(U.S.)	12.0	Ounces(Troy)
Pound(U.S.)	16.0	Ounces
Grain/U.S.Gallon	17.118	Ounces
Ton (Metric)	2205.0	Parts/Million
Ton (Short)	2000.0	Pounds(Avoir.)
Ton (Long)	2240.0	Pounds(Avoir.)
Ounce	0.0625	Pounds(Avoir.)
Gram/Cm	0.0056	Pounds(Avoir.)
Pound (Troy)	0.0003674	Pounds/Inch
Pound (Troy)	0.0003732	Tons(Long)
Pound	0.0004114	Tons(Metric)
		Tons(Short)

Multiply	By	To Obtain
VELOCITY		
Rev./Min.(RPM)	0.1047	Radians/Sec.
Feet/Min.	0.5080	Centimeters/Sec.
Centimeter/Second	1.969	Feet/Min
Meter/Min.	3.281	Feet/Min.
Meter/Sec.	3.281	Feet/Sec.
Meter/Min.	0.05468	Feet/Sec.
Feet/Min.	0.01829	Kilometers/Hr.
Mile/Hr.	1.609	Kilometers/Hr.
Kilometer/Hr.	16.67	Meters/Min.
Centimeter/Second	0.6	Meters/Min.
Feet/Min.	0.3048	Meters/Min.

Multiply	By	To Obtain
LENGTH		
Foot	30.48	Centimeters
Inch	2.540	Centimeters
Kilometer	3281.0	Feet
Meter	3.281	Feet
Meter	39.37	Inches
Centimeter	0.3937	Inches
Mile	1.609	Kilometers
Foot	0.3048	Meters
Kilometer	0.6214	Miles
Meter	1.094	Yards
Kilometer	1094.00	Yards

Effect of small changes of pump speed

- 1.The capacity varies directly as the speed.
- 2.The head varies the square of the speed.
- 3.The brake horsepower varies the cube of the speed.

Effect of small changes of impeller diameter

- 1.The capacity varies directly as the diameter.
- 2.The head varies the square of the diameter.
- 3.The brake horsepower varies the cube of the diameter.

Effect of viscosity

Viscous liquids tend to reduce pump capacity head and efficiency and to increase pump brake and increase line pipe line friction . Consult factory for recommendation when pumping viscous liquids.

Effect of small changes of pump speed

Brake horsepower varies directly with specific gravity other than water(1.0) multiply the brake horsepower for the water by the specific gravity of the liquid to be handled.

A centrifugal pump always develops the same head in feet no matter what the specific gravity of the liquid pumped. However , the pressure (in pounds per square inch) will be increased or decreased in direct proportion to the specific gravity.

Effect of small changes of pump speed

Liquid HP Equals - HP required to lift liquid at a definite rate to a given distance assuming 100% efficiency.

$$= \text{GPM} \times \text{total Head (in ft)} \times \text{SPGR} / 3960$$

$$= \text{GPM} \times \text{PSI} / 1815$$

Brake HP Equals

-HP delivered by motor

-HP required by pump

-HP_{input} x motor efficiency

= Liquid HP / Pump efficiency

HP Input Equals

Conversion of 60 cycle performance curves to 50 cycle performance

-HP input to motor

$$= 1.341 \times \text{kilowatts input to motor}$$

Conversion of 60 cycle performance curves to 50 cycle performance

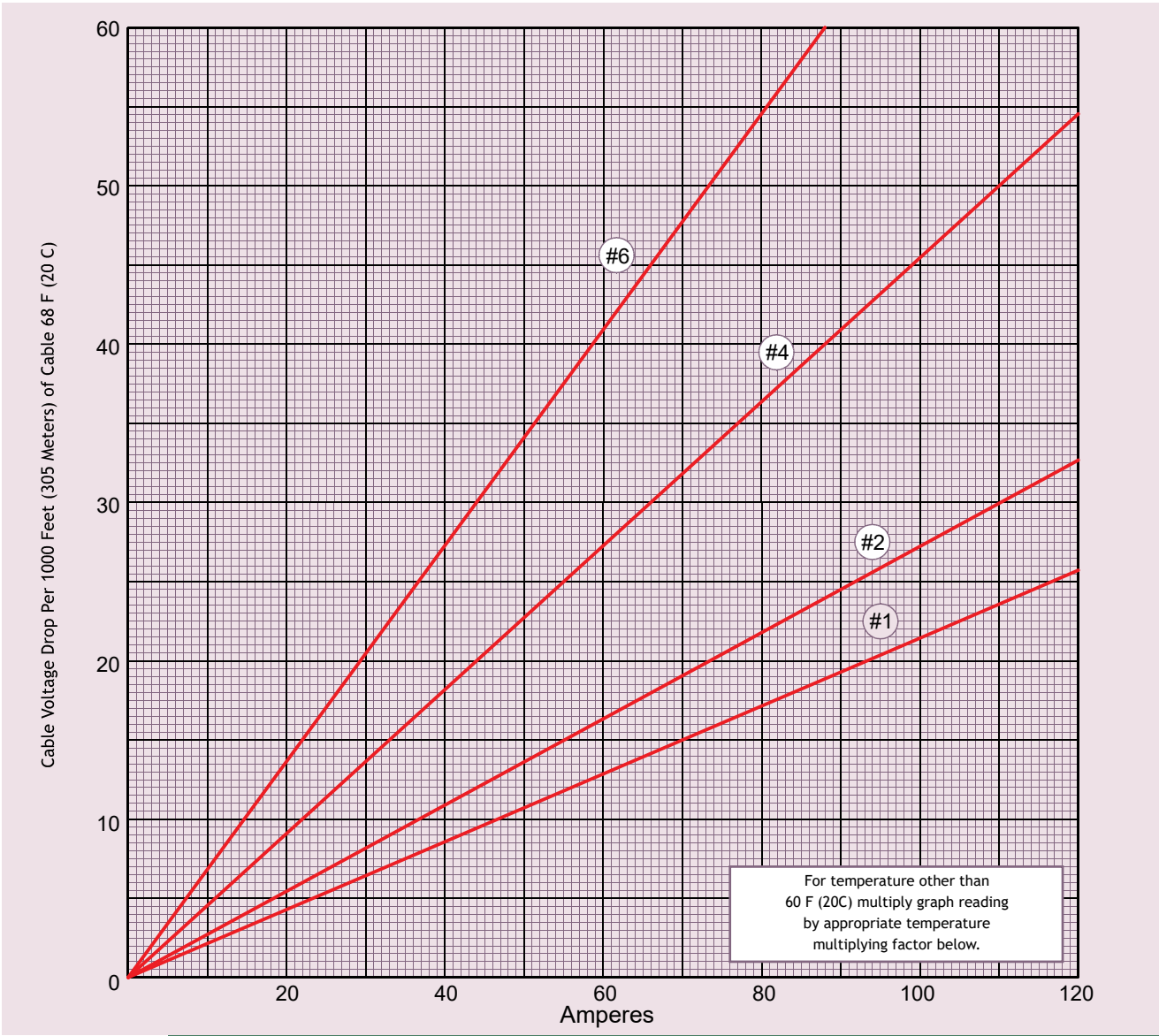
Head Capacity - (a) Shut-off head will be 69.44%

(b) Wide open capacity will be 83.33%

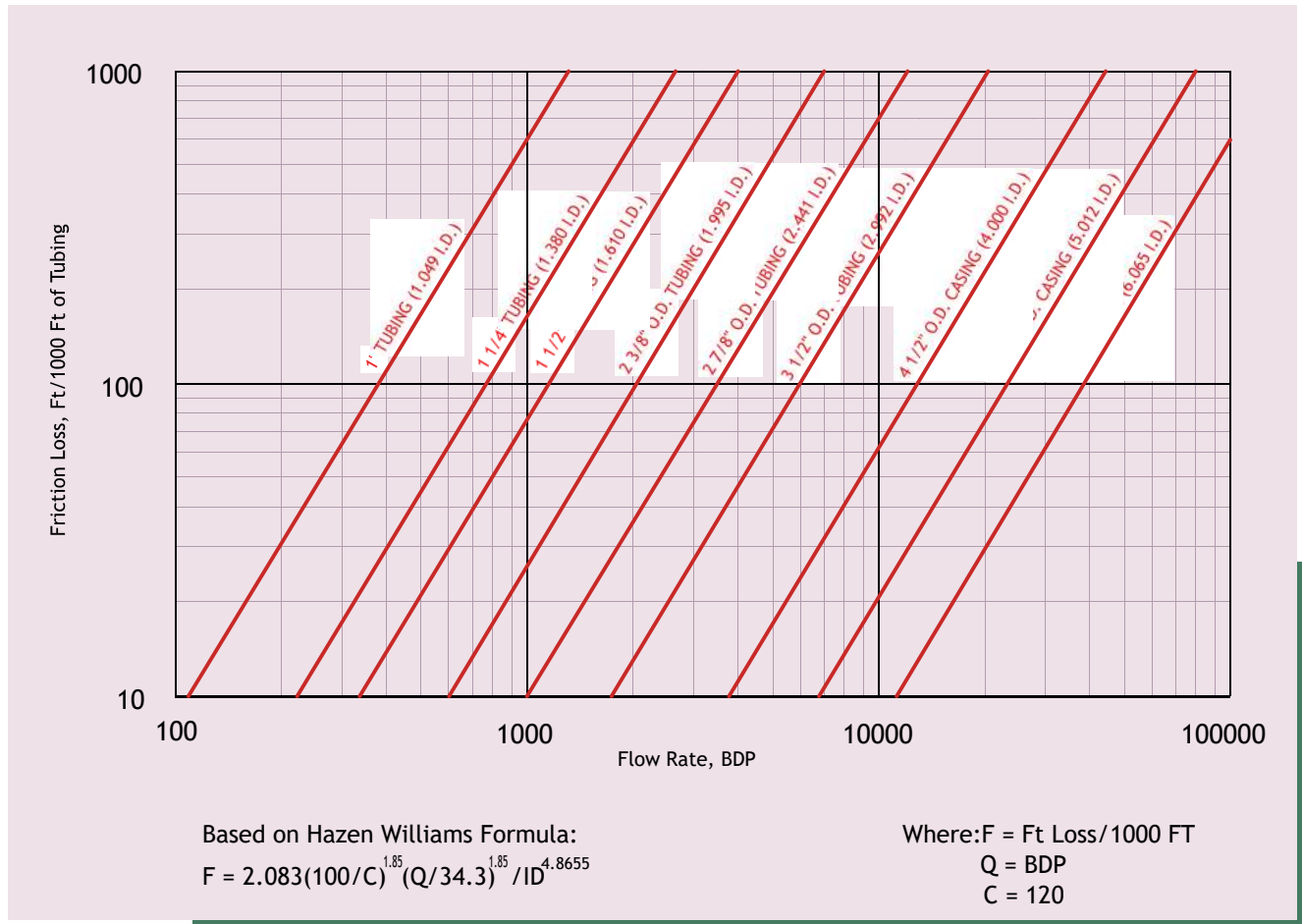
(c) Taking any point on the 60 cycle curve, multiply by capacity by 0.8333 and head by 0.6944 to determine 50 cycle performance

Horsepower - Taking any point on the 60 cycle curve (related to capacity) multiply by 0.578 and locate on 50 cycle curve at 83.33% of the 60 cycle capacity.

Efficiency - 50 cycle efficiency will be of the same magnitude as 60 cycle efficiency, but locate Points at 83.33% of the 60 cycle capacity.



Conductor Voltage Drop			
Temp.F(C)	Multiplying Factor	Temp.F(C)	Multiplying Factor
100(38)	1.070	200(93)	1.288
110(43)	1.092	210(99)	1.310
120(49)	1.114	220(104)	1.332
130(54)	1.136	230(110)	1.354
140(60)	1.157	240(116)	1.376
150(66)	1.179	250(121)	1.398
160(71)	1.201	260(127)	1.420
170(77)	1.223	270(132)	1.441
180(82)	1.245	280(138)	1.463
190(88)	1.267	290(143)	1.485



338 SERIES PUMP



338 SERIES PUMP

CAPACITY/RANGE GUIDELINES

338 PUMP SERIES

50 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
338	338-550	0.625	5/8	0.307	89	4 1/2	64-111
338	338-750	0.625	5/8	0.307	99	4 1/2	73-132
338	338-950	0.625	5/8	0.307	126	4 1/2	79-172
338	338-1250	0.625	5/8	0.307	159	4 1/2	126-225
338	338-2200	0.689	11/16	0.371	305	4 1/2	132-336
338	338-2500	0.689	11/16	0.371	318	4 1/2	159-411

338 PUMP SERIES

60 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
338	338-550	0.625	5/8	0.307	550	4 1/2	400-700
338	338-750	0.625	5/8	0.307	750	4 1/2	550-1000
338	338-950	0.625	5/8	0.307	950	4 1/2	600-1300
338	338-1250	0.625	5/8	0.307	1200	4 1/2	950-1700
338	338-2200	0.689	11/16	0.371	2300	4 1/2	1000-2760
338	338-2500	0.689	11/16	0.371	2400	4 1/2	1200-3100

CAPACITY/RANGE GUIDELINES

400 PUMP SERIES

50 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
400	400-300	0.689	11/16	0.371	45	5 1/2	17-66
400	400-500	0.689	11/16	0.371	59	5 1/2	40-95
400	400-700	0.689	11/16	0.371	110	5 1/2	66-153
400	400-900	0.689	11/16	0.371	135	5 1/2	79-185
400	400-1200	0.689	11/16	0.371	163	5 1/2	92-225
400	400-1400	0.689	11/16	0.371	210	5 1/2	110-265
400	400-1600	0.689	11/16	0.371	242	5 1/2	133-292
400	400-2200	0.689	11/16	0.371	286	5 1/2	159-358
400	400-3000	0.875	7/8	0.601	374	5 1/2	266-490
400	400-3200	0.875	7/8	0.601	474	5 1/2	316-553
400	400-4300	0.875	7/8	0.601	570	5 1/2	424-715
400	400-6000	0.875	7/8	0.601	690	5 1/2	580-980

400 PUMP SERIES

60 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
400	400-300	0.689	11/16	0.371	330	5 1/2	200-400
400	400-500	0.689	11/16	0.371	450	5 1/2	300-600
400	400-700	0.689	11/16	0.371	825	5 1/2	580-980
400	400-900	0.689	11/16	0.371	1000	5 1/2	700-1100
400	400-1200	0.689	11/16	0.371	1225	5 1/2	900-1500
400	400-1400	0.689	11/16	0.371	1580	5 1/2	1100-1700
400	400-1600	0.689	11/16	0.371	1850	5 1/2	1200-2000
400	400-2200	0.689	11/16	0.371	2150	5 1/2	1500-2500
400	400-3000	0.875	7/8	0.601	2850	5 1/2	2000-3500
400	400-3200	0.875	7/8	0.601	3000	5 1/2	3000-4500
400	400-4300	0.875	7/8	0.601	4300	5 1/2	3200-5400
400	400-6000	0.875	7/8	0.601	5600	5 1/2	3600-6800

538 SERIES PUMP



538 SERIES PUMP

CAPACITY/RANGE GUIDELINES

538 PUMP SERIES

50 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
538	538-1600	0.875	7/8	0.601	231	6 5/8	119-297
538	538-2000	0.875	7/8	0.601	302	6 5/8	199-358
538	538-2800	0.875	7/8	0.601	413	6 5/8	266-609
538	538-3400	0.875	7/8	0.601	493	6 5/8	299-688
538	538-4700	0.875	7/8	0.601	636	6 5/8	397-779
538	538-5200	1.00	1	0.785	695	6 5/8	517-874
538	538-5600	1.00	1	0.785	874	6 5/8	533-994
538	538-7000	1.00	1	0.785	954	6 5/8	666-994
538	538-10000	1.187	1 3/16	1.11	1272	6 5/8	922-1590

538 PUMP SERIES

60 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
538	538-1600	0.875	7/8	0.601	1750	6 5/8	1100-2000
538	538-2000	0.875	7/8	0.601	2250	6 5/8	1700-2700
538	538-2800	0.875	7/8	0.601	3000	6 5/8	2000-4000
538	538-3400	0.875	7/8	0.601	3500	6 5/8	2500-4500
538	538-4700	0.875	7/8	0.601	4700	6 5/8	3500-5500
538	538-5200	0.875	1	0.785	5250	6 5/8	3900-6600
538	538-5600	1.00	1	0.785	6600	6 5/8	4000-7500
538	538-7000	1.00	1	0.785	7300	6 5/8	5000-9000
538	538-10000	1.187	1 3/16	1.11	9750	6 5/8	7000-12000

CAPACITY/RANGE GUIDELINES

562 PUMP SERIES

50 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
562	562-12000	1.189	1 3/16	1.11	1590	7	1259-1921
562	562-16000	1.189	1 3/16	1.11	2133	7	1490-2649
562	562-20000	1.189	1 3/16	1.11	2518	7	2319-3180

562 PUMP SERIES

60 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
562	562-12000	1.189	1 3/16	1.11	12000	7	9500-14500
562	562-16000	1.189	1 3/16	1.11	16000	7	11250-20000
562	562-20000	1.189	1 3/16	1.11	19000	7	17500-24000

675 SERIES PUMP



CAPACITY/RANGE GUIDELINES

675 PUMP SERIES

50 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
675	675-7000	1.189	1 3/16	1.11	901	8 5/8	596-1192
675	675-9000	1.189	1 3/16	1.11	1166	8 5/8	795-1524
675	675-12500	1.189	1 3/16	1.11	1524	8 5/8	994-1987
675	675-16000	1.189	1 3/16	1.11	2067	8 5/8	1463-2258
675	675-19000	1.189	1 3/16	1.11	2570	8 5/8	1590-3246
675	675-27000	1.189	1 3/16	1.11	3736	8 5/8	3100-4452
675	675-35000	1.189	1 3/16	1.11	4770	8 5/8	4452-6121

675 PUMP SERIES

60 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
675	675-7000	1.189	1 3/16	1.11	6800	8 5/8	4500-9000
675	675-9000	1.189	1 3/16	1.11	8800	8 5/8	6000-11500
675	675-12500	1.189	1 3/16	1.11	11500	8 5/8	7500-15000
675	675-16000	1.189	1 3/16	1.11	15500	8 5/8	11000-17000
675	675-19000	1.189	1 3/16	1.11	19400	8 5/8	12000-24500
675	675-27000	1.189	1 3/16	1.11	28000	8 5/8	23500-33500
675	675-35000	1.189	1 3/16	1.11	36000	8 5/8	33500-46000

675 SERIES PUMP

CAPACITY/RANGE GUIDELINES

875 PUMP SERIES

50 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
875	875-21000	1.189	1 3/16	1.11	2783	10 3/4	1365-3643
875	875-40000	1.189	1 3/16	1.11	3246	10 3/4	1683-4266

875 PUMP SERIES

60 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
875	875-21000	1.189	1 3/16	1.11	21000	10 3/4	10300-27500
875	875-24000	1.189	1 3/16	1.11	24500	10 3/4	12700-32200

1025 SERIES PUMP



CAPACITY/RANGE GUIDELINES

1025 PUMP SERIES

50 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
1025	1025-35000	1.189	1 3/16	1.11	4836	13 5/8	2544-6081
1025	1025-45000	1.189	1 3/16	1.11	5697	13 5/8	2636-7803

1025 SERIES PUMP

1025 PUMP SERIES

60 Hz

Pump Series	Pump Type	Pump Shaft Diameter In.		Shaft Cross Section	Best Efficiency Rate	Minimum CSG Size	Operating Range
1025	1025-35000	1.189	1 3/16	1.11	36500	13 5/8	19200-45900
1025	1025-45000	1.189	1 3/16	1.11	43000	13 5/8	19900-58900

338 Series 3.38 In(85.9mmOD)

338-550

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
10	2.1	38	16
20	3.5	64	35
30	4.9	89	54
40	6.3	107	74
50	7.8	142	93
60	9.1	167	12
70	10.5	194	132
80	11.9	220	151
90	13.3	245	170
100	14.8	272	190

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3.8 IN. OD 8RD EUE	0.5	6
STANDARD BOLTO ON INTAKE *	0.8	20
STANDARD GAS SEPARATOR TYPE **	3.9	55
* CARBON STEEL		** 0.687 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 2440 BPD		MINIMUM FLOW RATE 1000 BPD

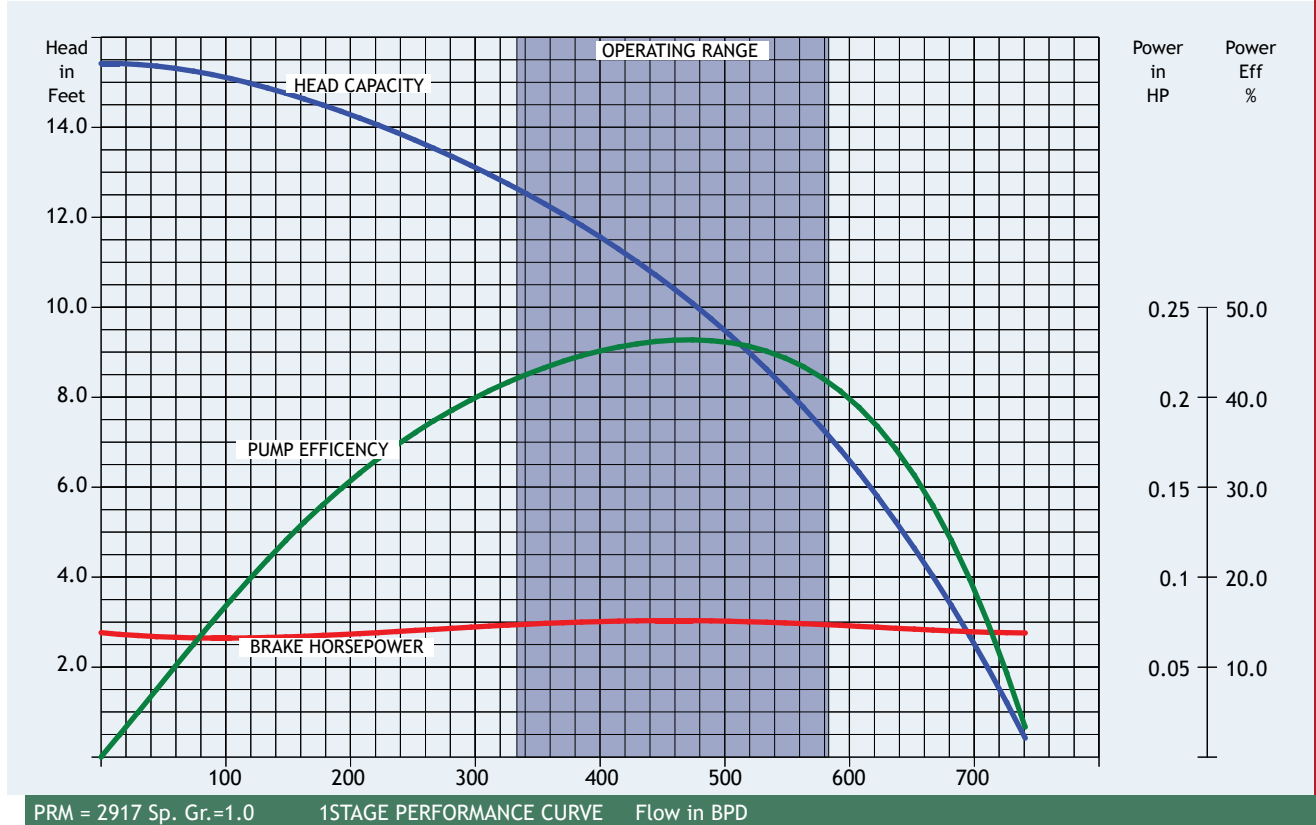
338 SERIES PUMP



338 SERIES PUMP

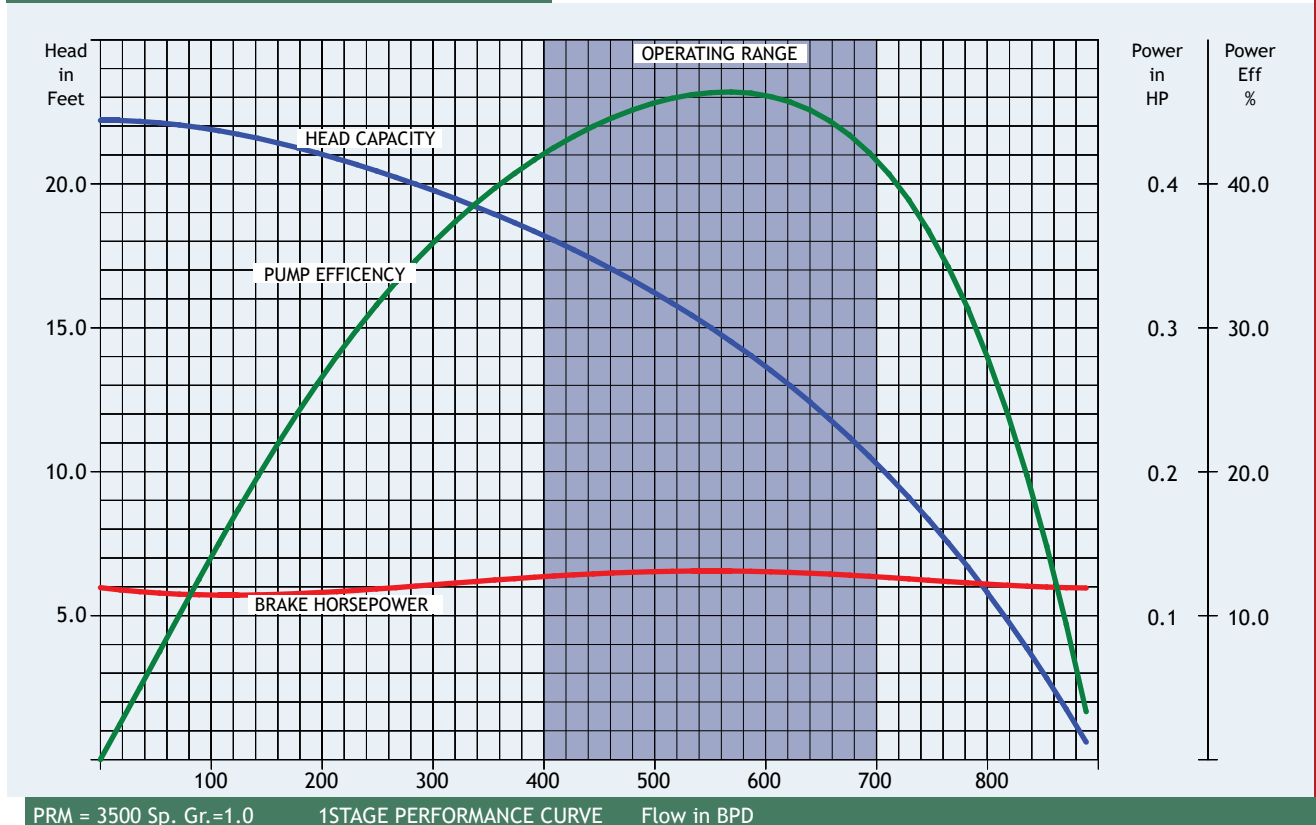
338 SERIES 338-550

50 Hz



338 SERIES 338-550

60 Hz



338 Series 3.38 In(85.9mmOD)

338-750

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
10	1.9	37	12
20	2.9	54	25
30	3.9	70	37
40	4.9	87	50
50	5.9	102	63
60	6.9	123	76
70	7.9	145	89
80	8.9	166	102
90	9.9	185	115
100	10.9	203	128
110	11.9	221	140
120	12.9	239	153
130	13.9	257	166
140	14.9	275	179
150	15.9	293	192
160	16.9	311	205
170	17.9	329	218
180	18.9	347	231

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3.8 IN. OD 8RD EUE	0.5	6
STANDARD BOLTO ON INTAKE *	0.8	20
STANDARD GAS SEPARATOR TYPE **	3.9	55
* CARBON STEEL		** 0.687 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 2440 BPD		MINIMUM FLOW RATE 1000 BPD

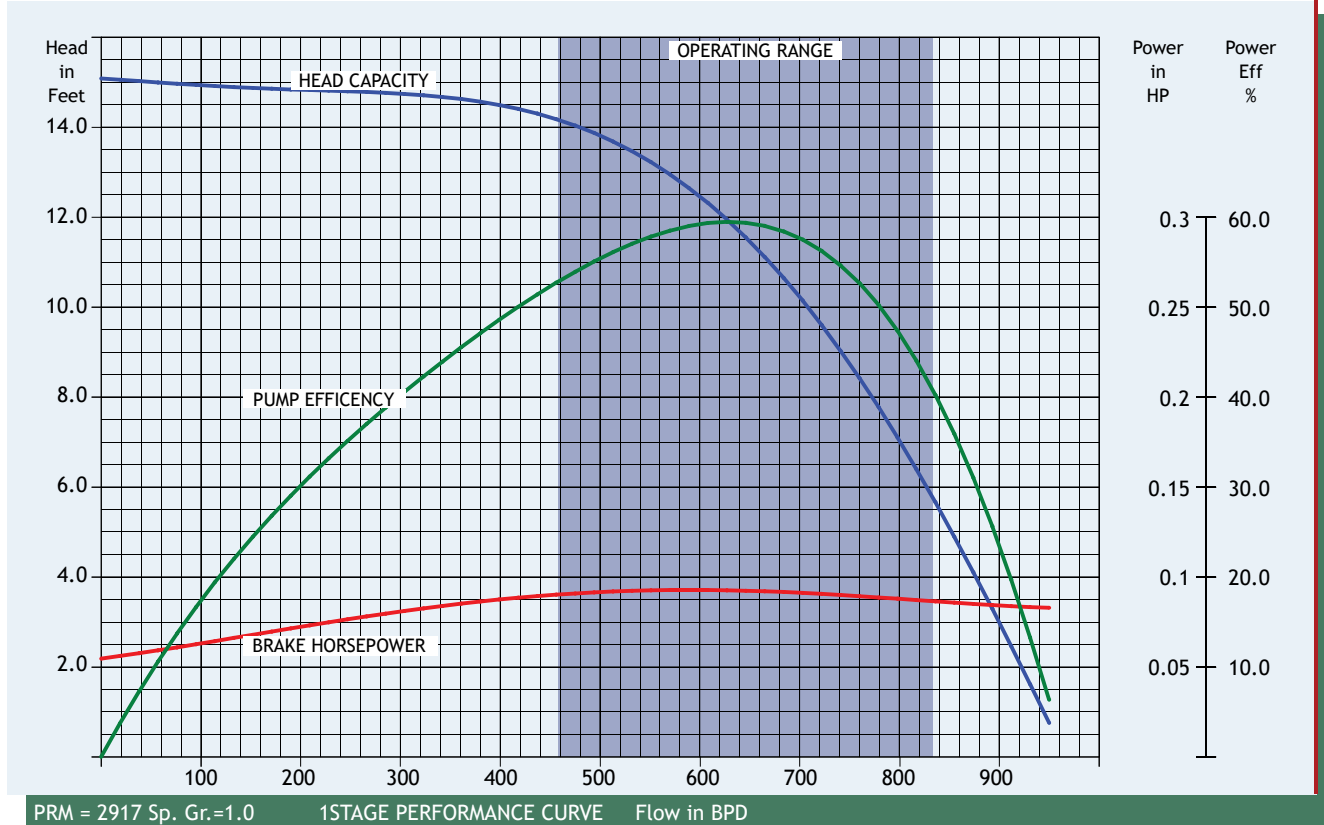
338 SERIES PUMP



338-750

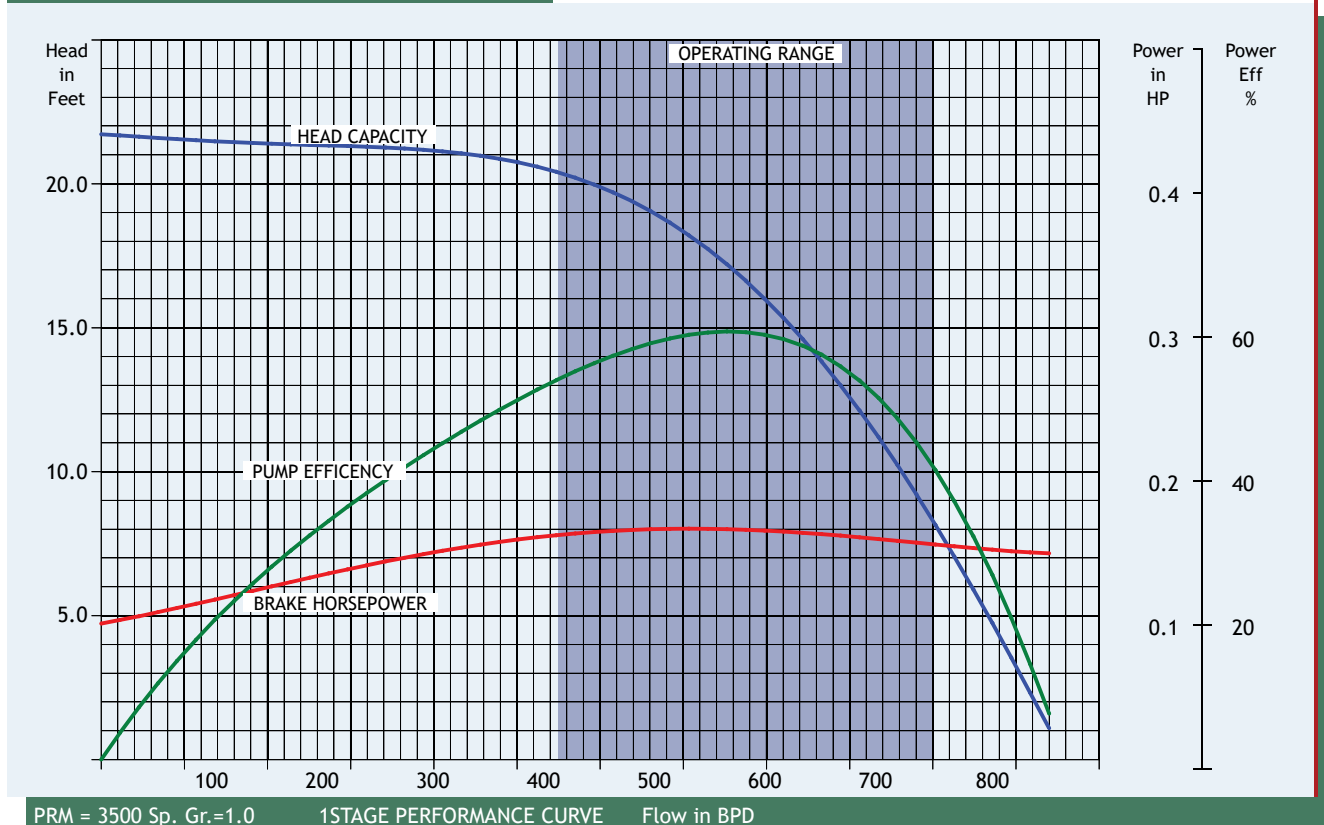
338 SERIES 338-750

50 Hz



338 SERIES 338-750

60 Hz



338 Series 3.38 In(85.9mmOD)

338-950

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
10	1.9	37	10
20	2.9	54	21
30	3.9	70	32
40	4.9	87	43
50	5.9	102	54
60	6.9	123	65
70	7.9	145	76
80	8.9	166	88
90	9.9	185	99
100	10.9	203	110
110	11.9	221	121
120	12.9	239	132
130	13.9	257	143
140	14.9	275	154
150	15.9	293	165
160	16.9	311	176
170	17.9	329	187
180	18.9	347	199

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3.8 IN. OD 8RD EUE	0.5	6
STANDARD BOLTO ON INTAKE *	0.8	20
STANDARD GAS SEPARATOR TYPE **	3.9	55
* CARBON STEEL		** 0.687 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 2440 BPD		MINIMUM FLOW RATE 1000 BPD

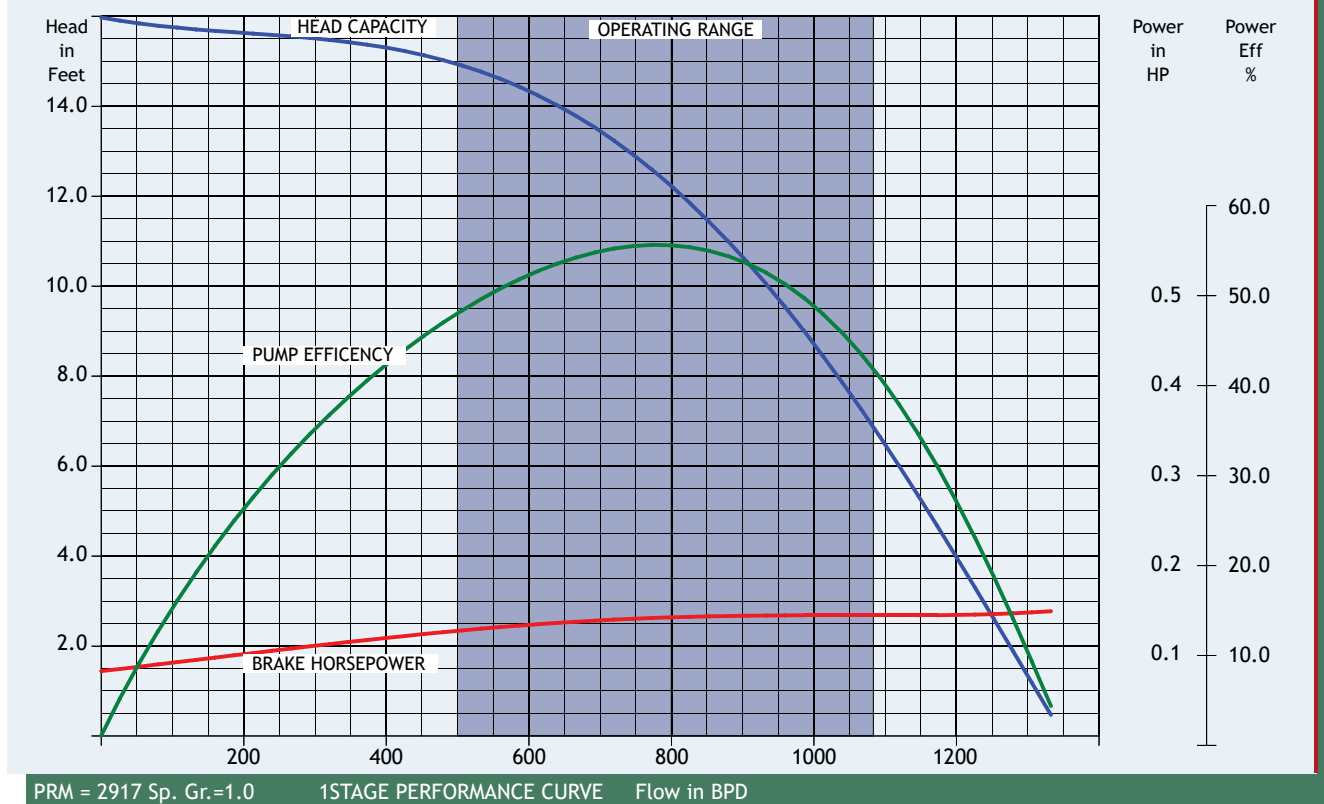
338 SERIES PUMP



338-950

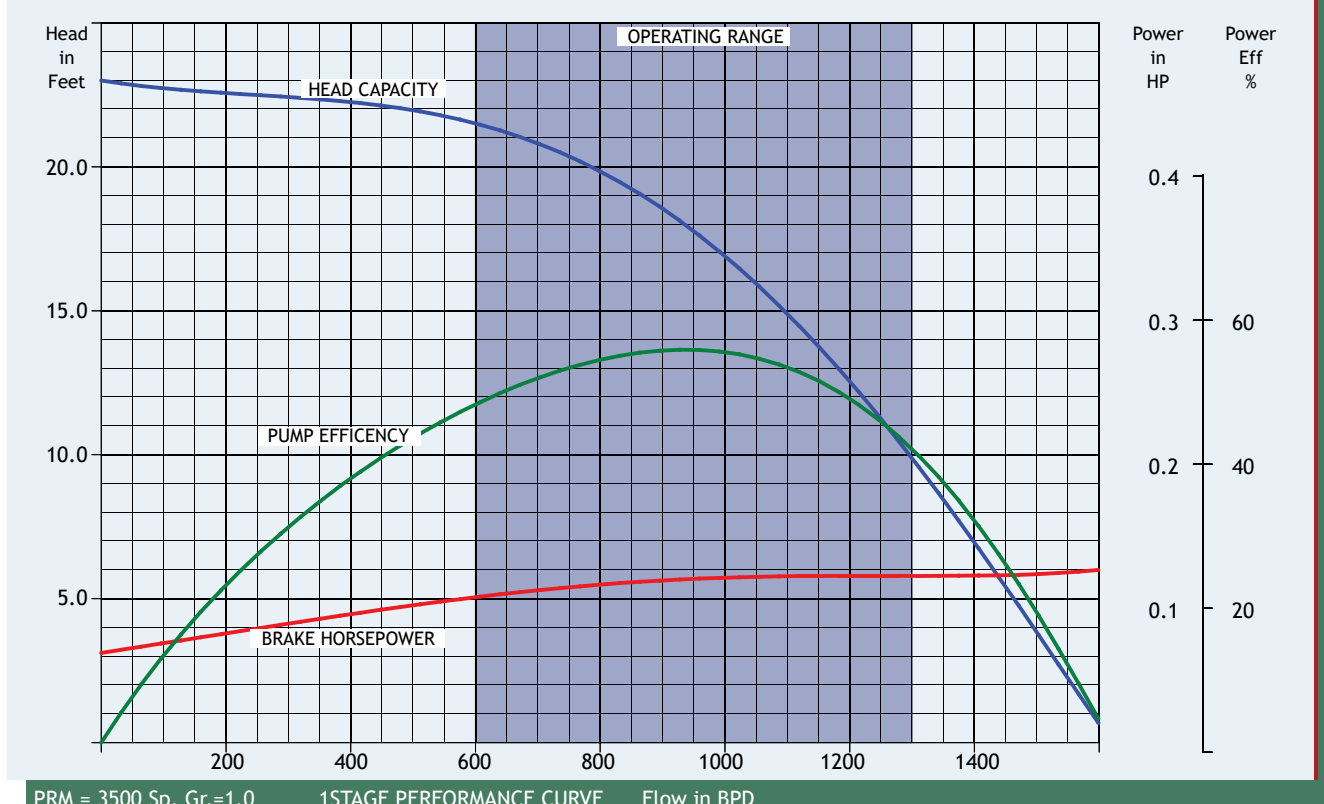
338 SERIES 338-950

50 Hz



338 SERIES 338-950

60 Hz



338 Series

3.38 In(85.9mmOD)

338-1250

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
10	1.9	37	9
20	2.9	54	20
30	3.9	70	31
40	4.9	87	41
50	5.9	102	52
60	6.9	123	62
70	7.9	145	73
80	8.9	166	84
90	9.9	185	94
100	10.9	203	105
110	11.9	221	116
120	12.9	239	126
130	13.9	257	137
140	14.9	275	147
150	15.9	293	158
160	16.9	311	169
170	17.9	329	179
180	18.9	347	190

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3.8 IN. OD 8RD EUE	0.5	6
STANDARD BOLTO ON INTAKE *	0.8	20
STANDARD GAS SEPARATOR TYPE **	3.9	55
* CARBON STEEL		** 0.687 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 2440 BPD		MINIMUM FLOW RATE 1000 BPD

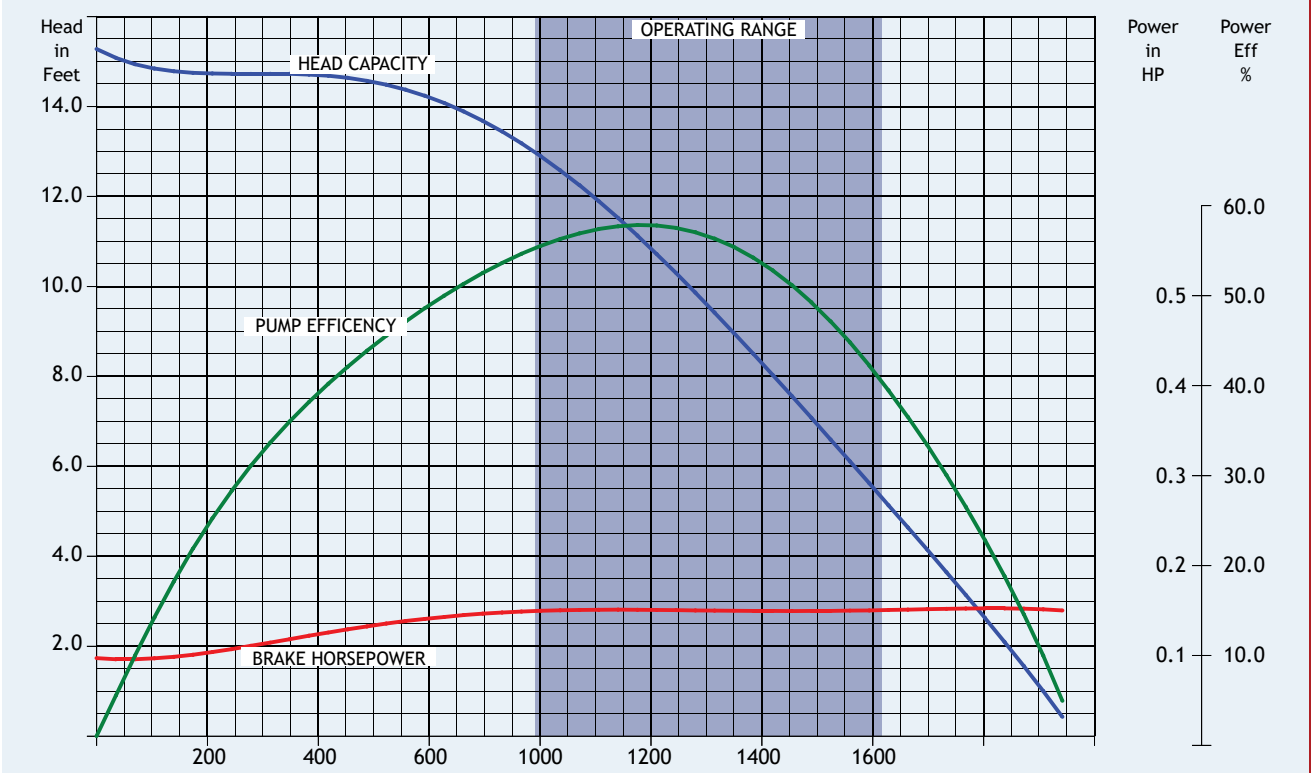
338 SERIES PUMP



338-1250

338 SERIES 338-1250

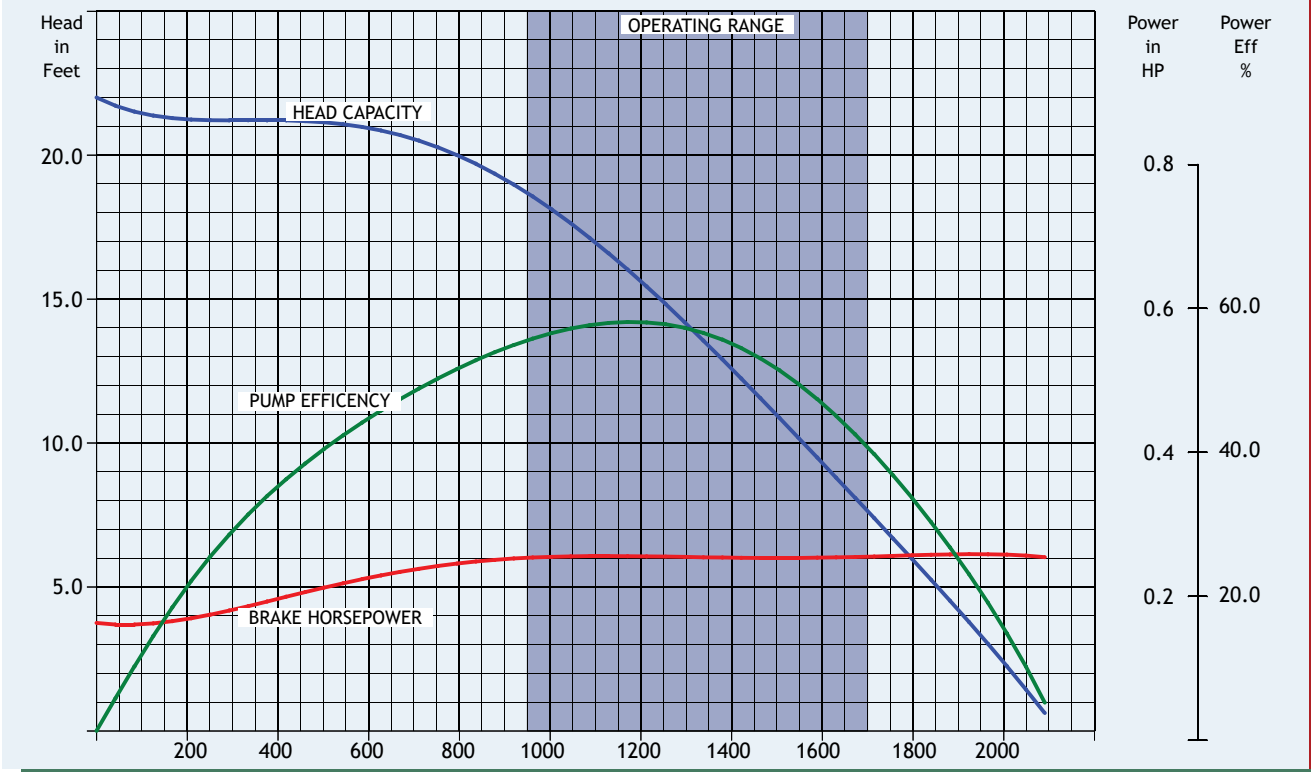
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

338 SERIES 338-1250

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

338 Series

3.38 In(85.9mmOD)

338-2200

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
10	2.0	37	4
20	3.0	54	9
30	4.0	70	13
40	5.0	87	18
50	6.0	102	22
60	7.0	123	27
70	8.0	145	31
80	9.0	166	36
90	10.0	185	41
100	11.0	203	45
110	12.0	221	50
120	13.0	239	54
130	14.0	257	59
140	15.0	275	64
150	16.0	293	68
160	17.0	311	73
170	18.0	329	77
180	19.0	347	82

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3.8 IN. OD 8RD EUE	0.5	6
STANDARD BOLTO ON INTAKE *	0.8	20
STANDARD GAS SEPARATOR TYPE **	3.9	55
* CARBON STEEL		** 0.687 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 2440 BPD		MINIMUM FLOW RATE 1000 BPD

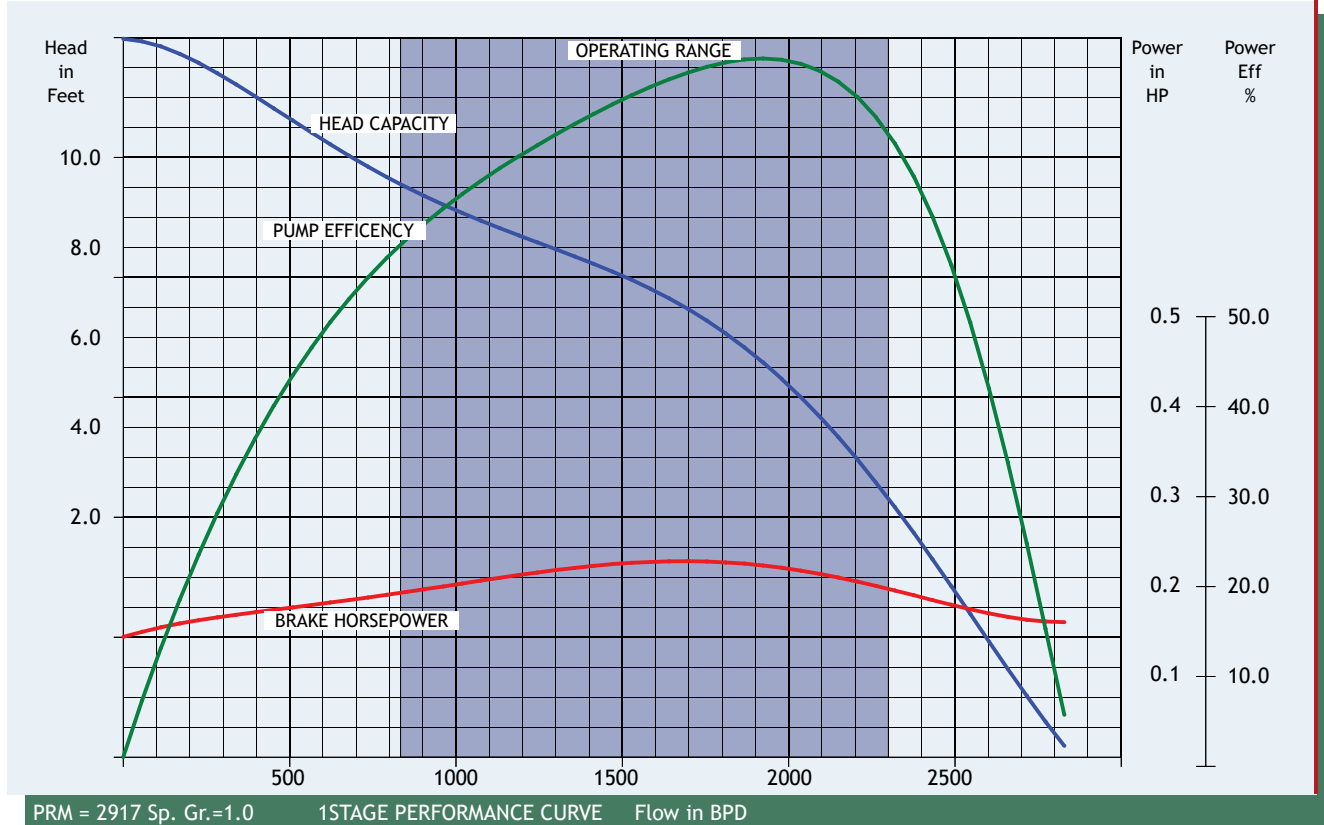
338 SERIES PUMP



338-2200

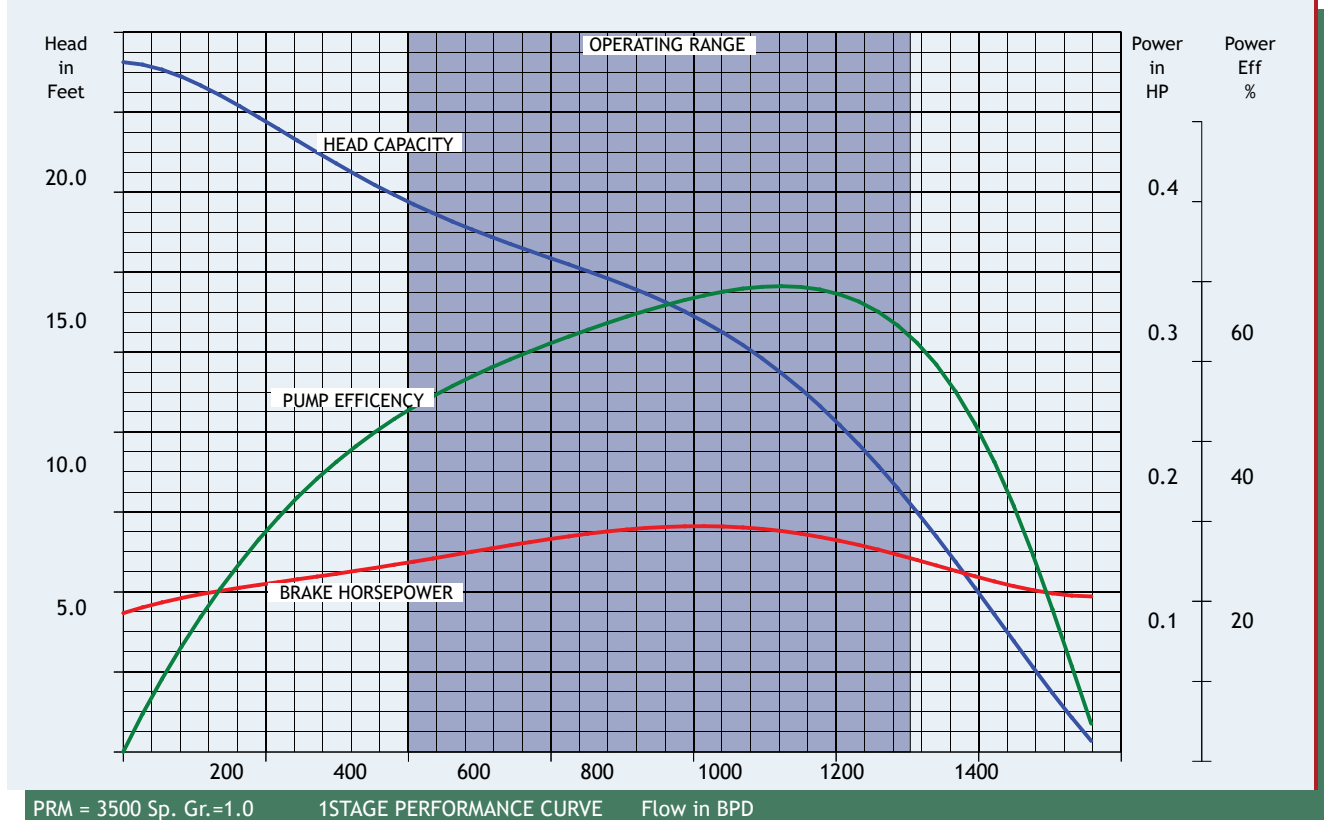
338 SERIES 338-2200

50 Hz



338 SERIES 338-2200

60 Hz



338 Series 3.38 In(85.9mmOD)

338-2500

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
10	2.0	37	4
20	3.0	54	9
30	4.0	70	13
40	5.0	87	18
50	6.0	102	22
60	7.0	123	27
70	8.0	145	31
80	9.0	166	36
90	10.0	185	41
100	11.0	203	45
110	12.0	221	50
120	13.0	239	54
130	14.0	257	59
140	15.0	275	64
150	16.0	293	68
160	17.0	311	73
170	18.0	329	77
180	19.0	347	82

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3.8 IN. OD 8RD EUE	0.5	6
STANDARD BOLTO ON INTAKE *	0.8	20
STANDARD GAS SEPARATOR TYPE **	3.9	55
* CARBON STEEL		** 0.687 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 2440 BPD		MINIMUM FLOW RATE 1000 BPD

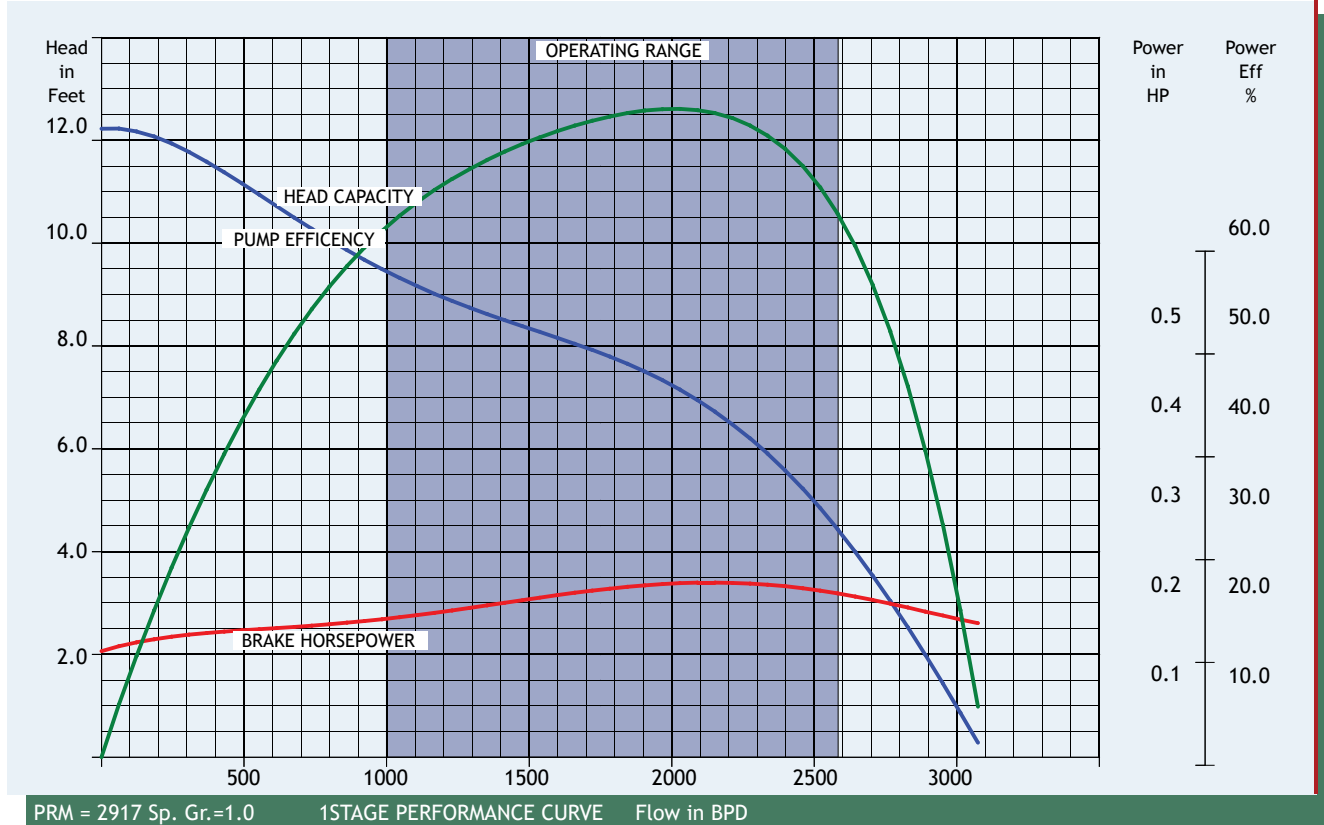
338 SERIES PUMP



338-2500

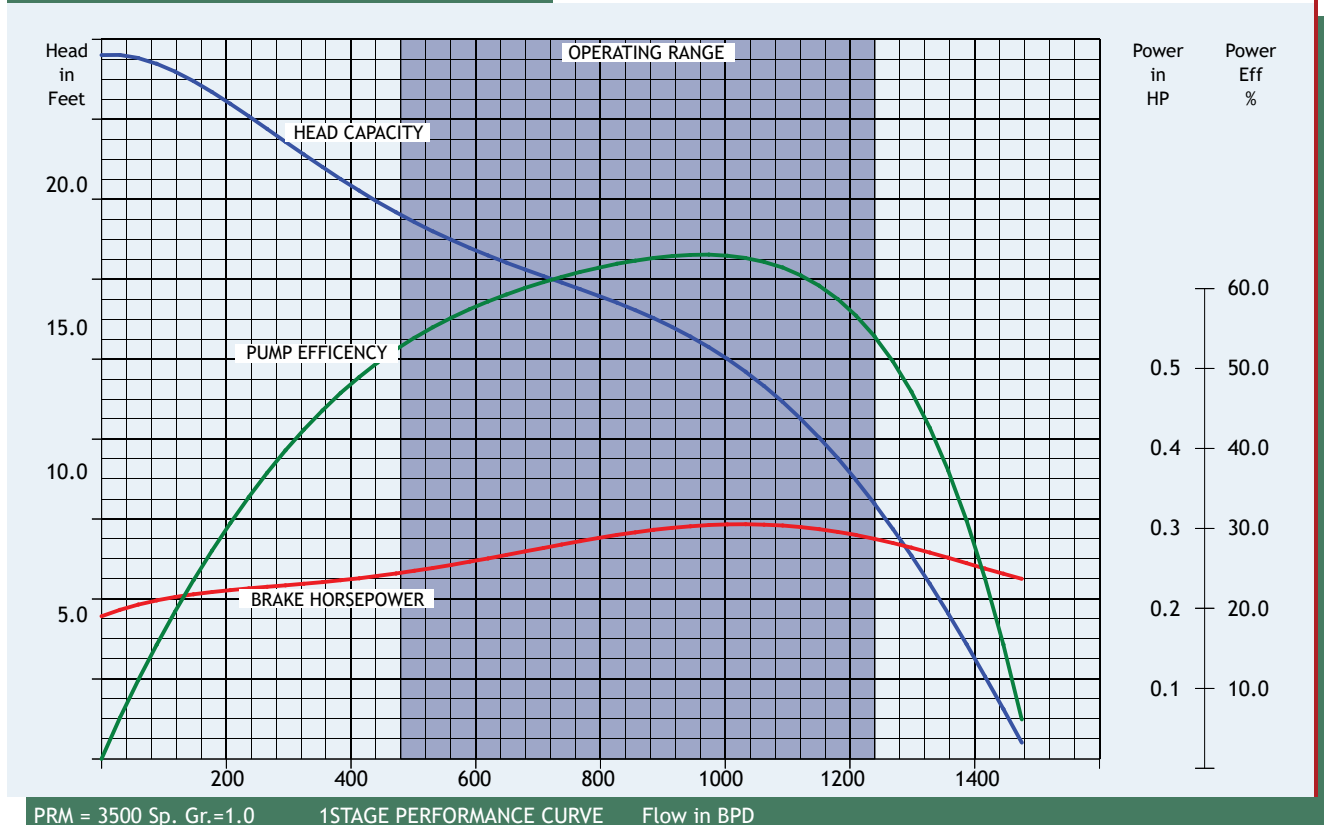
338 SERIES 338-2500

50 Hz



338 SERIES 338-2500

60 Hz



400 Series 4.00 In(101.6 mmOD)

400-300			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	98	28
2	5.2	145	43
3	6.7	188	65
4	8	231	86
5	9.7	274	108
6	11.2	317	129
7	12.7	360	151
8	14.2	403	172
9	15.7	446	194
10	17.2	489	216
11	18.7	532	237
12	20.2	575	259
13	21.7	618	280
14	23.2	661	302
15	24.7	704	323

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

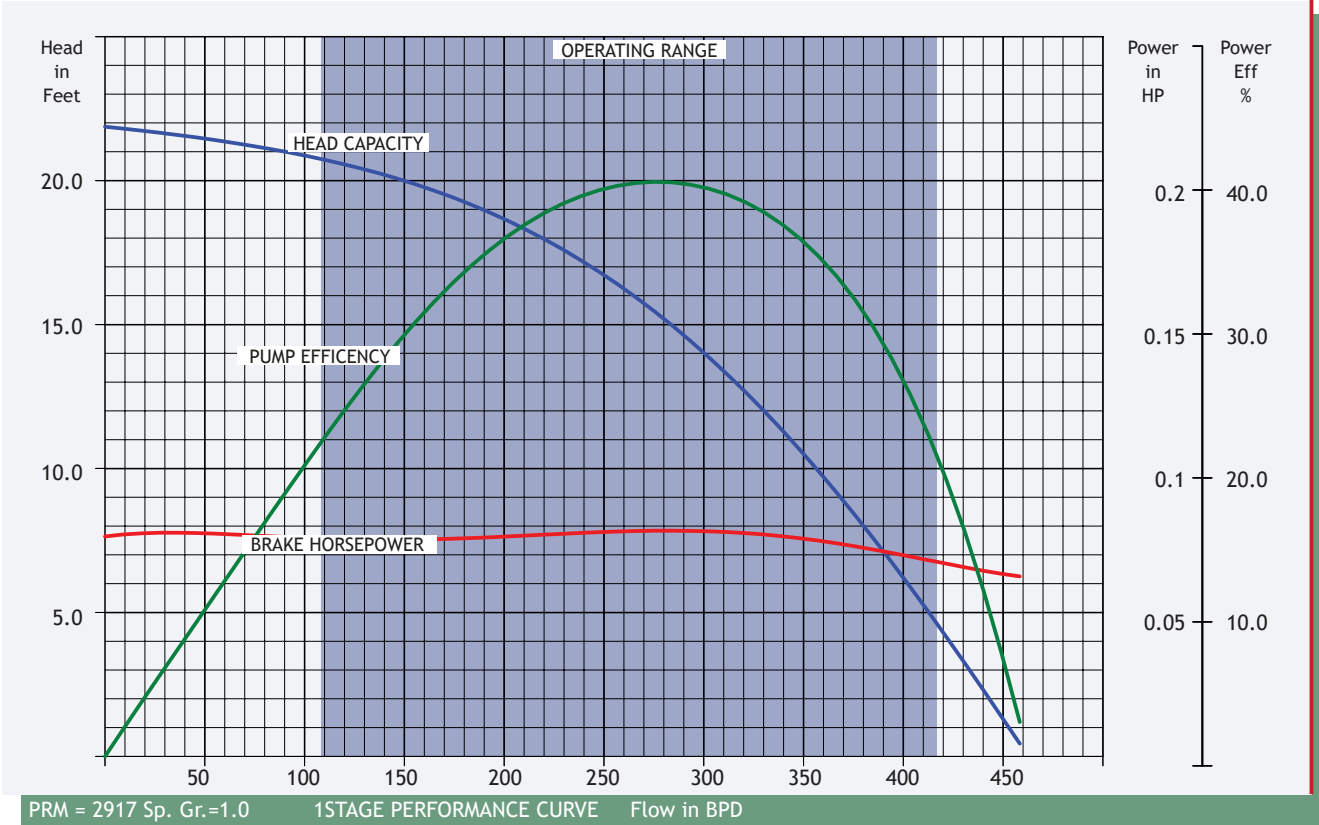
400 SERIES PUMP



400-300

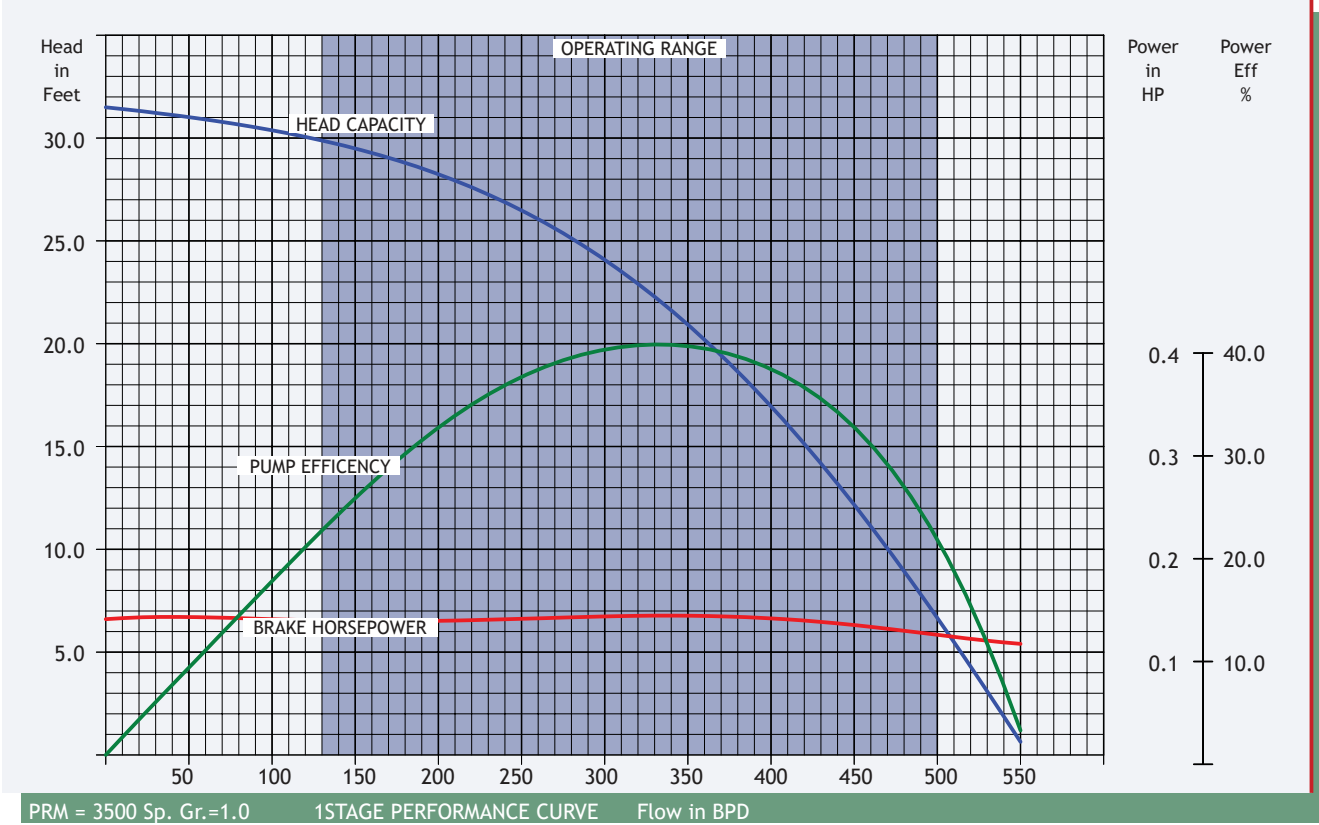
400 SERIES 400-300

50 Hz



400 SERIES 400-300

60 Hz



400 Series 4.00 In(101.6 mmOD)

400-500			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	98	28
2	5.2	140	41
3	6.7	182	62
4	8	222	82
5	9.7	263	103
6	11.2	305	124
7	12.7	346	144
8	14.2	388	165
9	15.7	428	185
10	17.2	470	206
11	18.7	510	227
12	20.2	552	247
13	21.7	592	268
14	23.2	634	288
15	24.7	675	309

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

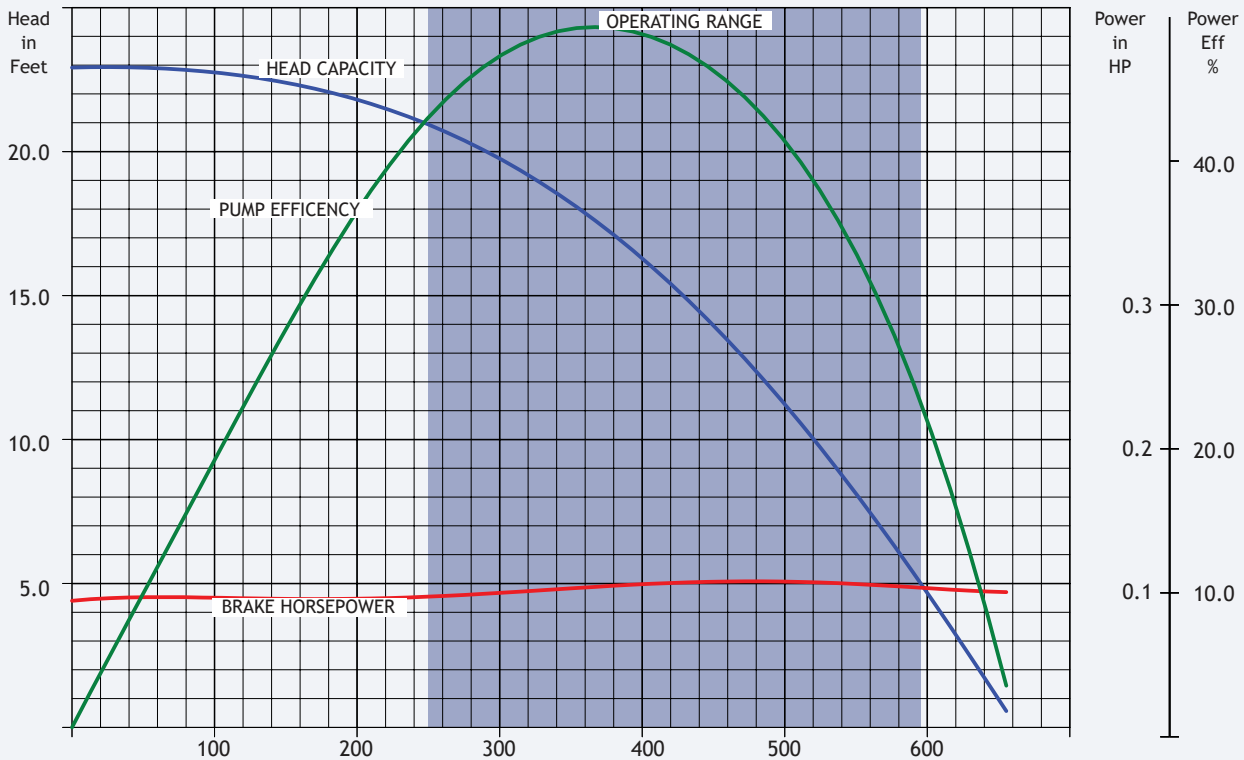
400 SERIES PUMP



400-500

400 SERIES 400-500

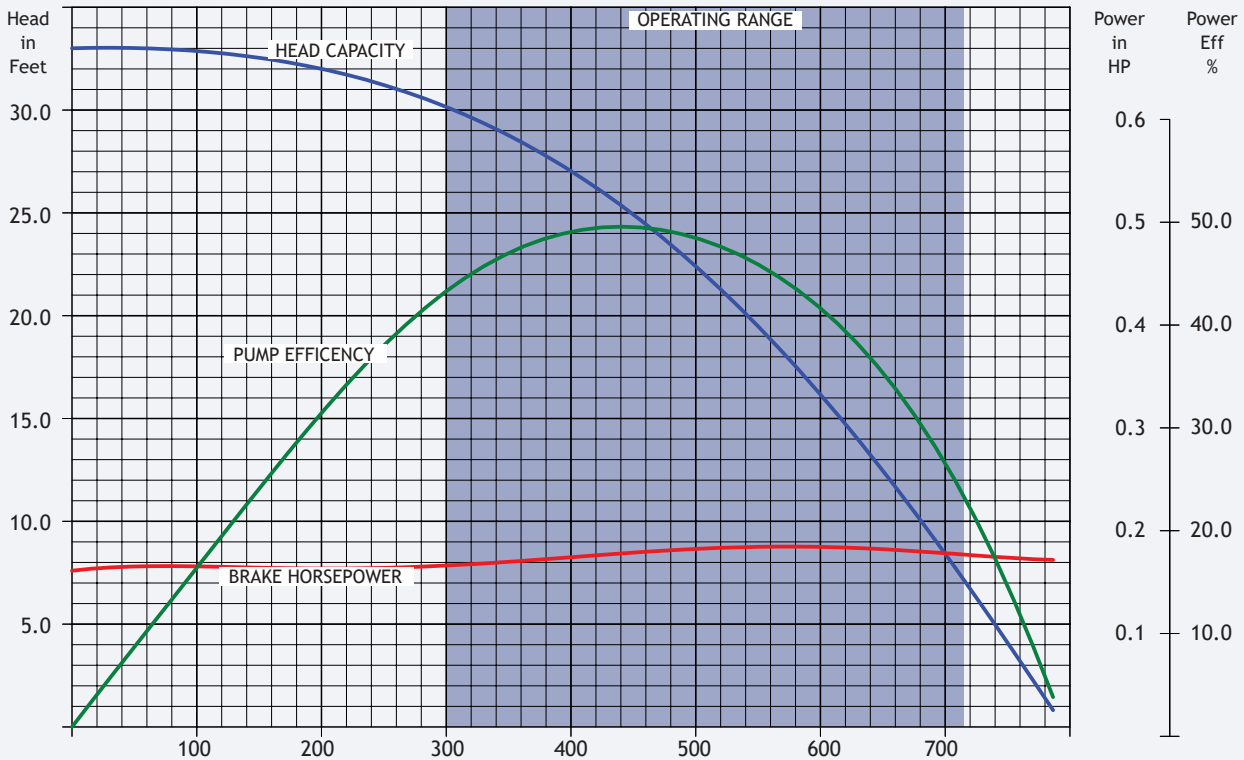
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

400 SERIES 400-500

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

400 Series 4.00 In(101.6 mmOD)

400-700			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	98	28
2	5.2	136	37
3	6.7	162	46
3	6.7	175	56
4	8.2	202	65
4	8.2	213	74
5	9.7	253	93
6	11.2	291	111
7	12.7	331	130
8	14.2	370	149
9	15.7	408	167
10	17.2	448	186
11	18.7	488	204
12	20.2	526	223
13	21.7	566	242
14	23.2	604	260
15	24.7	643	279

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

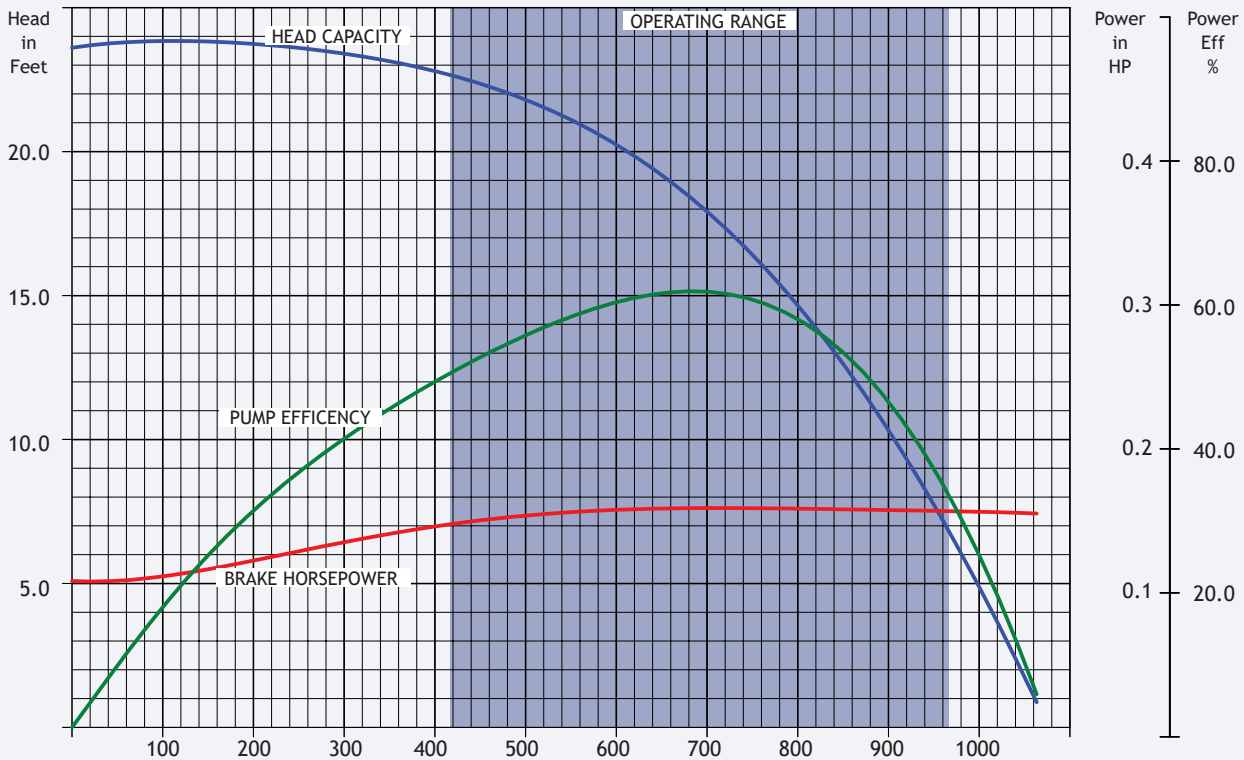
400 SERIES PUMP



400-700

400 SERIES 400-700

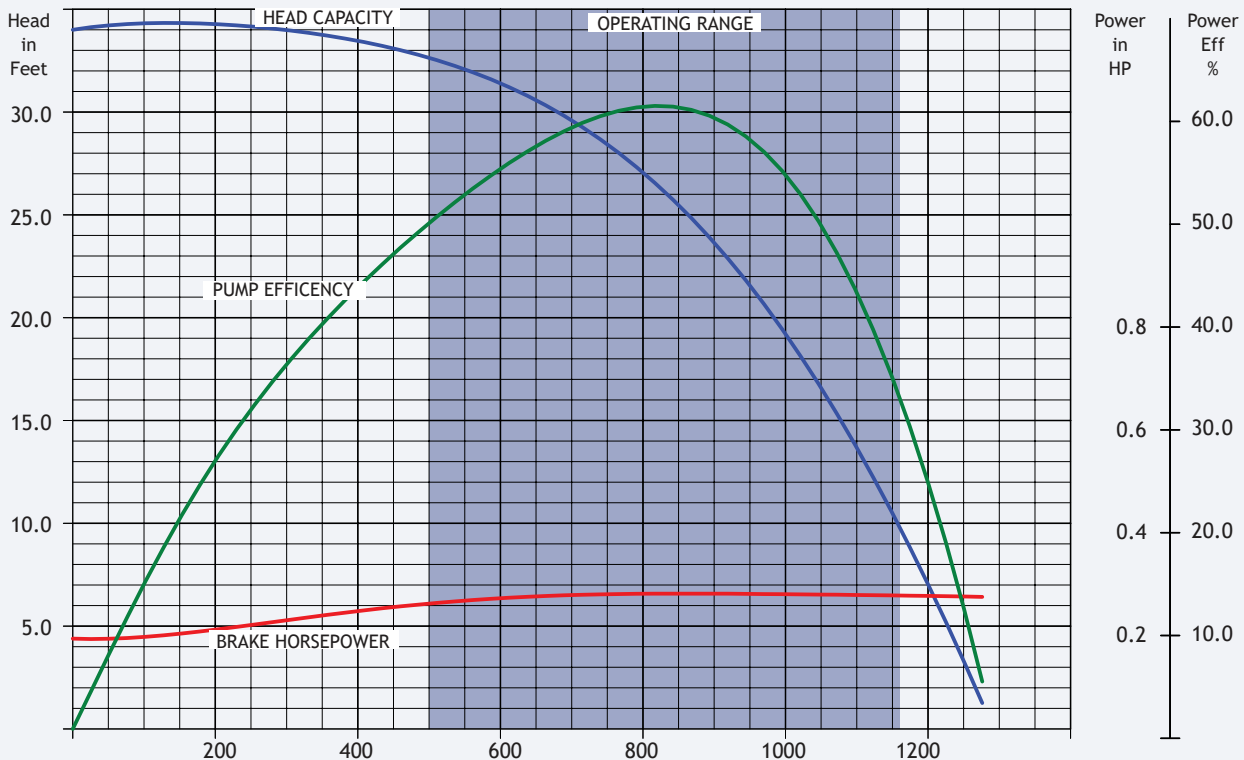
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

400 SERIES 400-700

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

400 Series 4.00 In(101.6 mmOD)

400-900			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
2	5.2	119	23
2	5.2	133	34
3	6.7	171	51
4	8.2	208	67
5	9.7	246	85
6	11.2	282	101
7	12.7	331	130
8	14.2	358	135
9	15.7	396	152
10	17.2	434	169
11	18.7	471	186
12	20.2	510	203
13	21.7	547	220
14	23.2	585	237
15	24.7	622	254

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

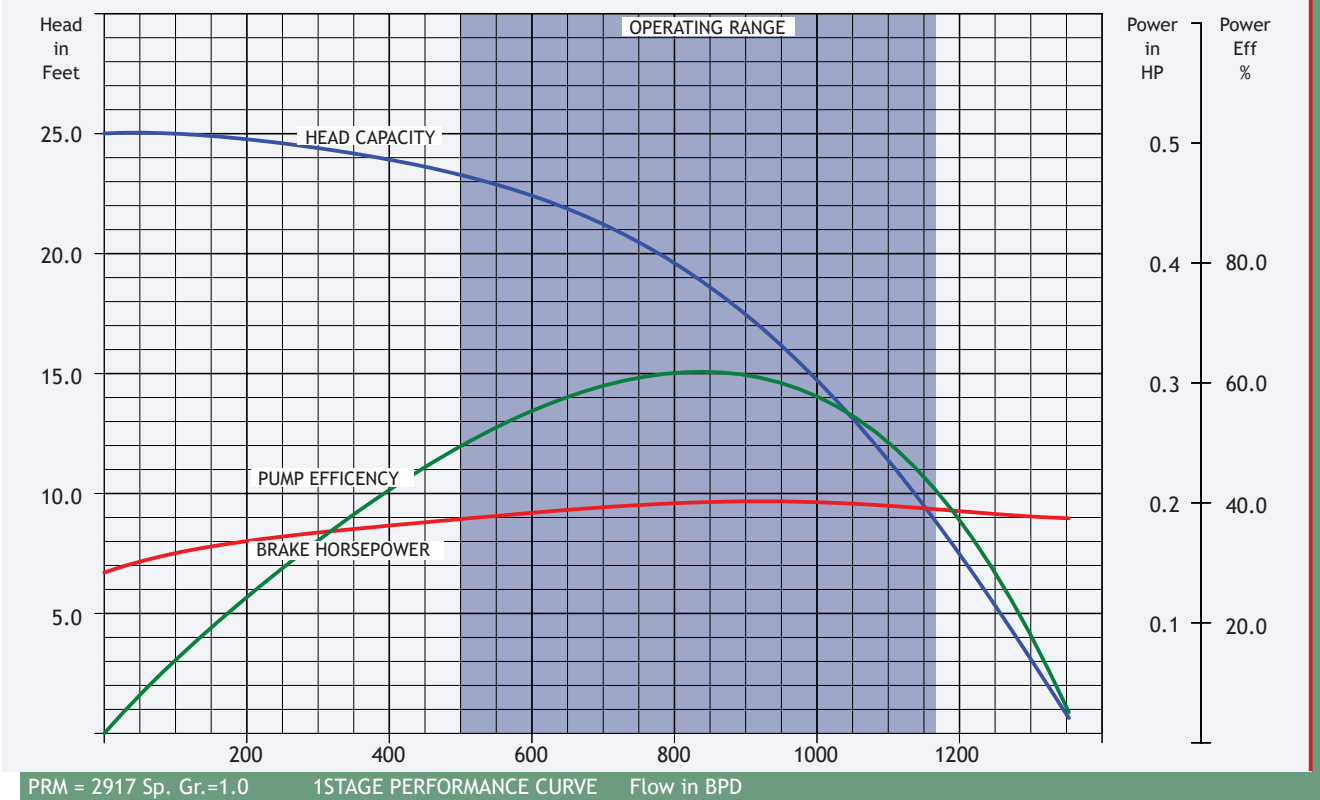
400 SERIES PUMP



400-900

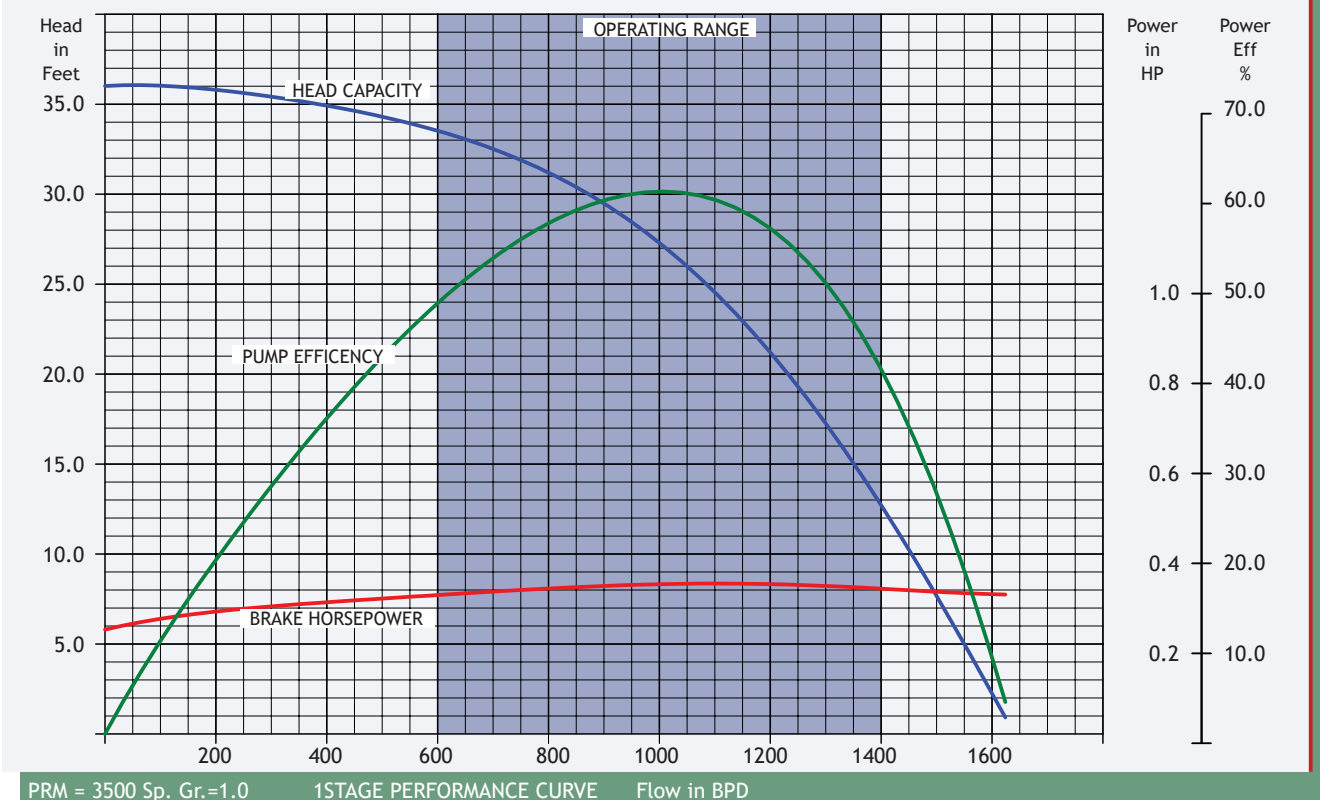
400 SERIES 400-900

50 Hz



400 SERIES 400-900

60 Hz



400 Series 4.00 In(101.6 mmOD)

400-1200			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
2	5.2	121	26
2	5.2	131	34
3	6.7	168	51
4	8.2	193	59
4	8.2	205	67
5	9.7	241	85
6	11.2	277	101
7	12.7	314	118
8	14.2	351	135
9	15.7	388	152
10	17.2	424	169
11	18.7	461	186
12	20.2	499	203
13	21.7	535	220
14	23.2	572	237
15	24.7	608	254

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

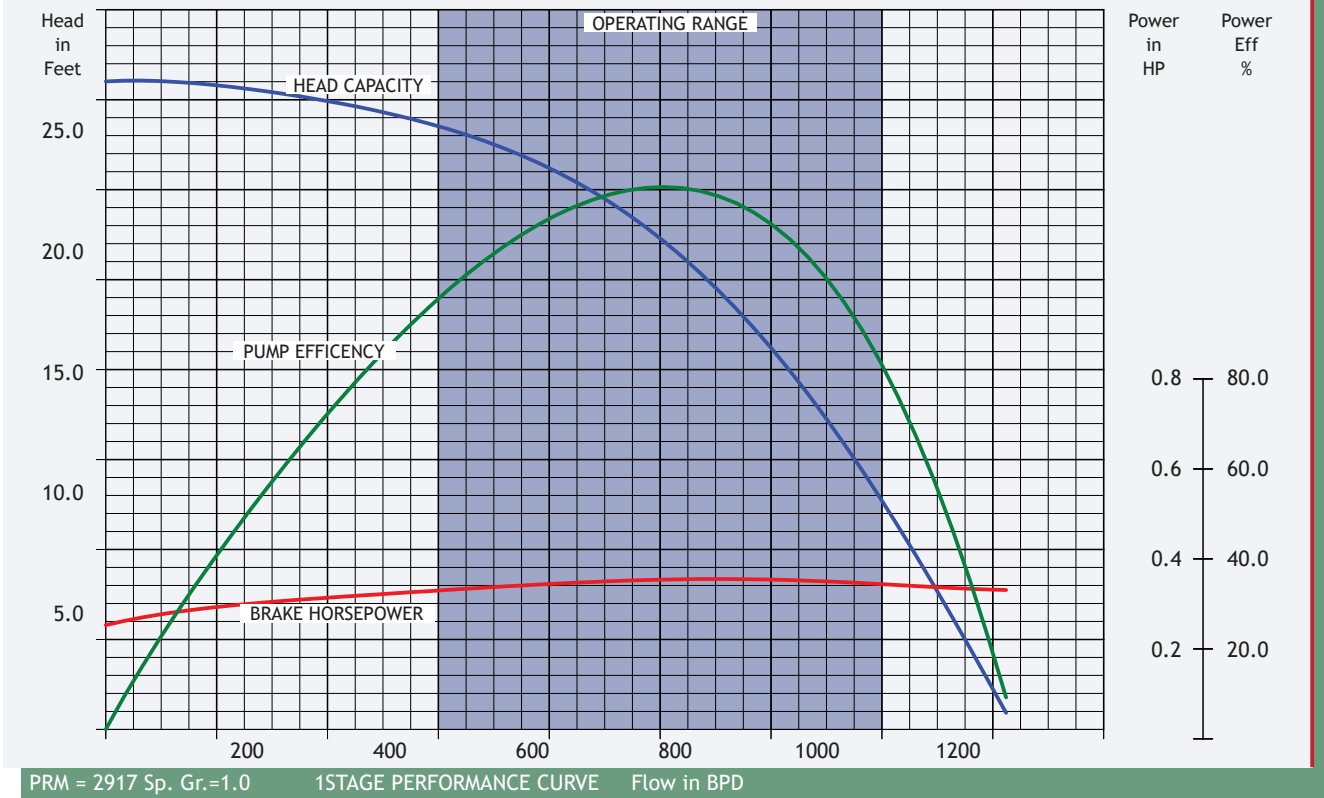
400 SERIES PUMP



400-1200

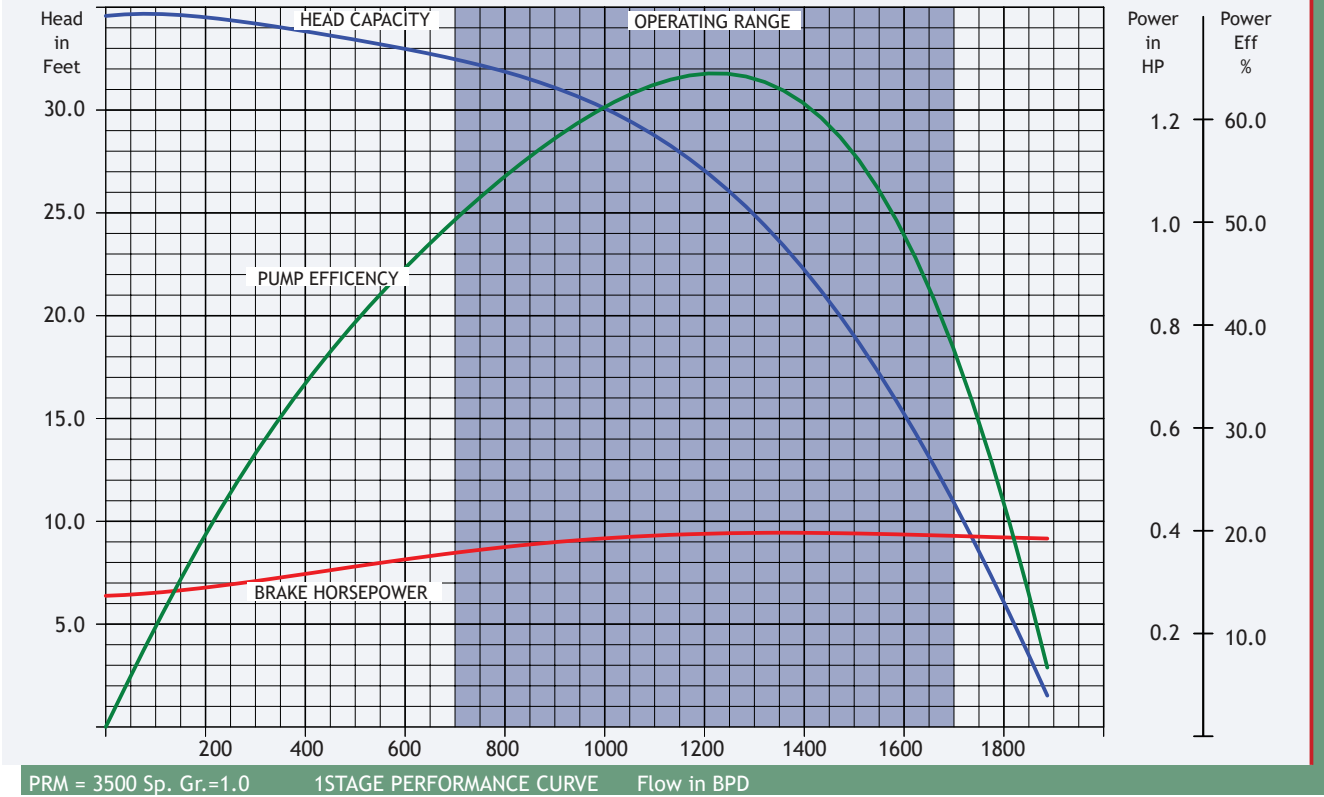
400 SERIES 400-1200

50 Hz



400 SERIES 400-1200

60 Hz



400 Series 4.00 In(101.6 mmOD)

400-1400

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	3.7	93	14
2	5.2	128	28
3	6.7	162	42
4	8.2	197	57
5	9.7	233	71
6	11.2	268	85
7	12.7	303	99
8	14.2	339	114
9	15.7	374	128
10	17.2	408	142
11	18.7	443	156
12	20.2	480	171
13	21.7	515	185
14	23.2	550	199
15	24.7	584	213

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

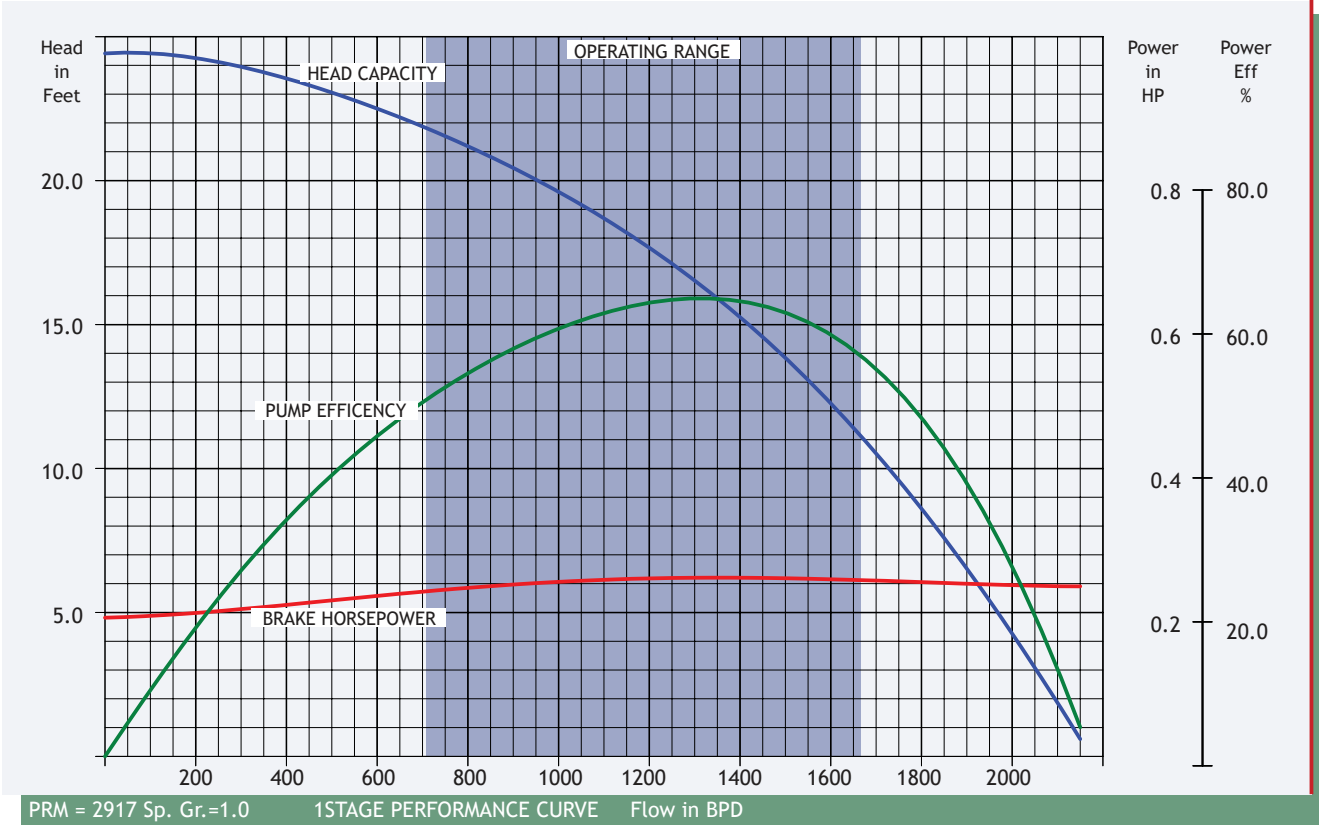
400 SERIES PUMP



400-1400

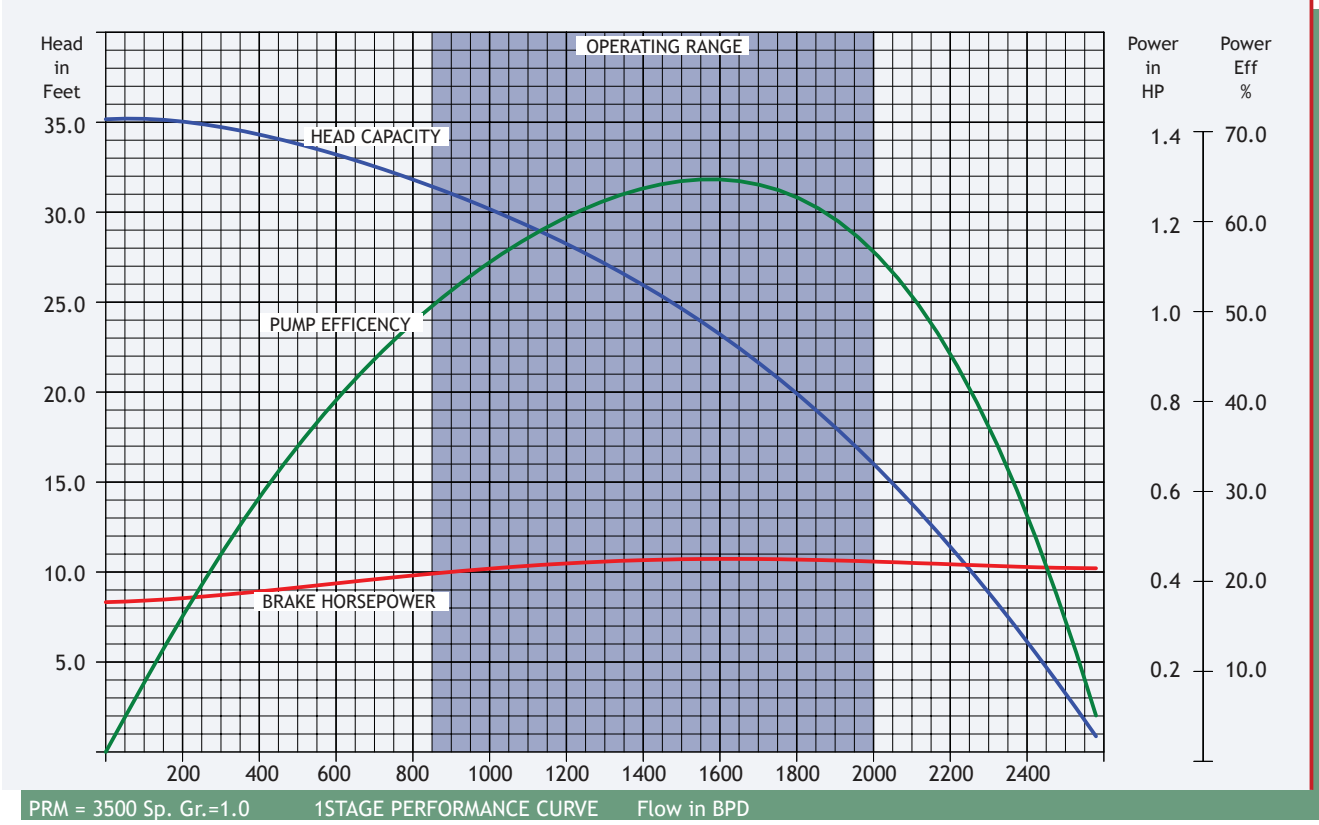
400 SERIES 400-1400

50 Hz



400 SERIES 400-1400

60 Hz



400 Series 4.00 In(101.6 mmOD)

400-1600			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
2	5.2	111	16
2	5.2	125	26
3	6.7	150	33
3	6.7	160	40
4	8.2	182	45
4	8.2	193	53
5	9.7	228	66
6	11.2	261	80
7	12.7	296	93
8	14.2	330	107
9	15.7	364	120
10	17.2	399	133
11	18.7	432	147
12	20.2	466	160
13	21.7	501	174
14	23.2	534	187
15	24.7	568	200

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

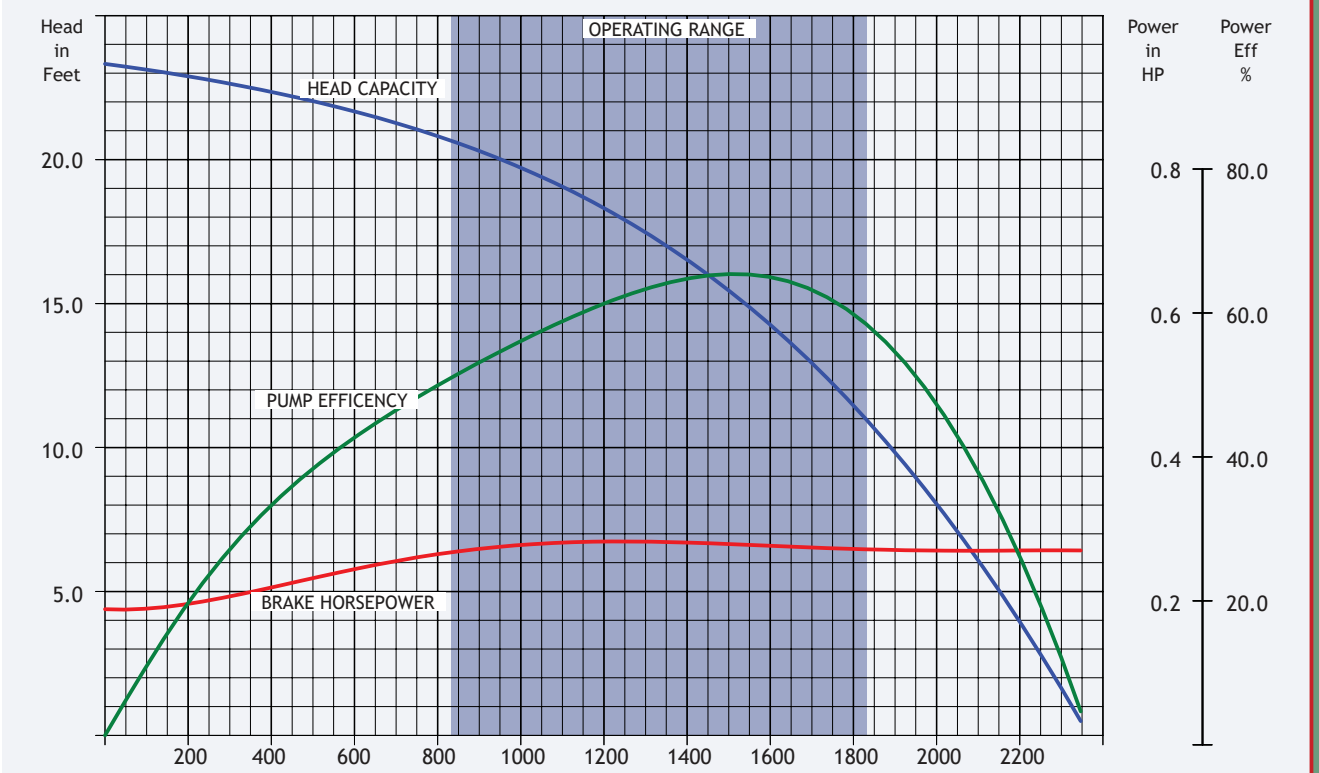
400 SERIES PUMP



400-1600

400 SERIES 400-1600

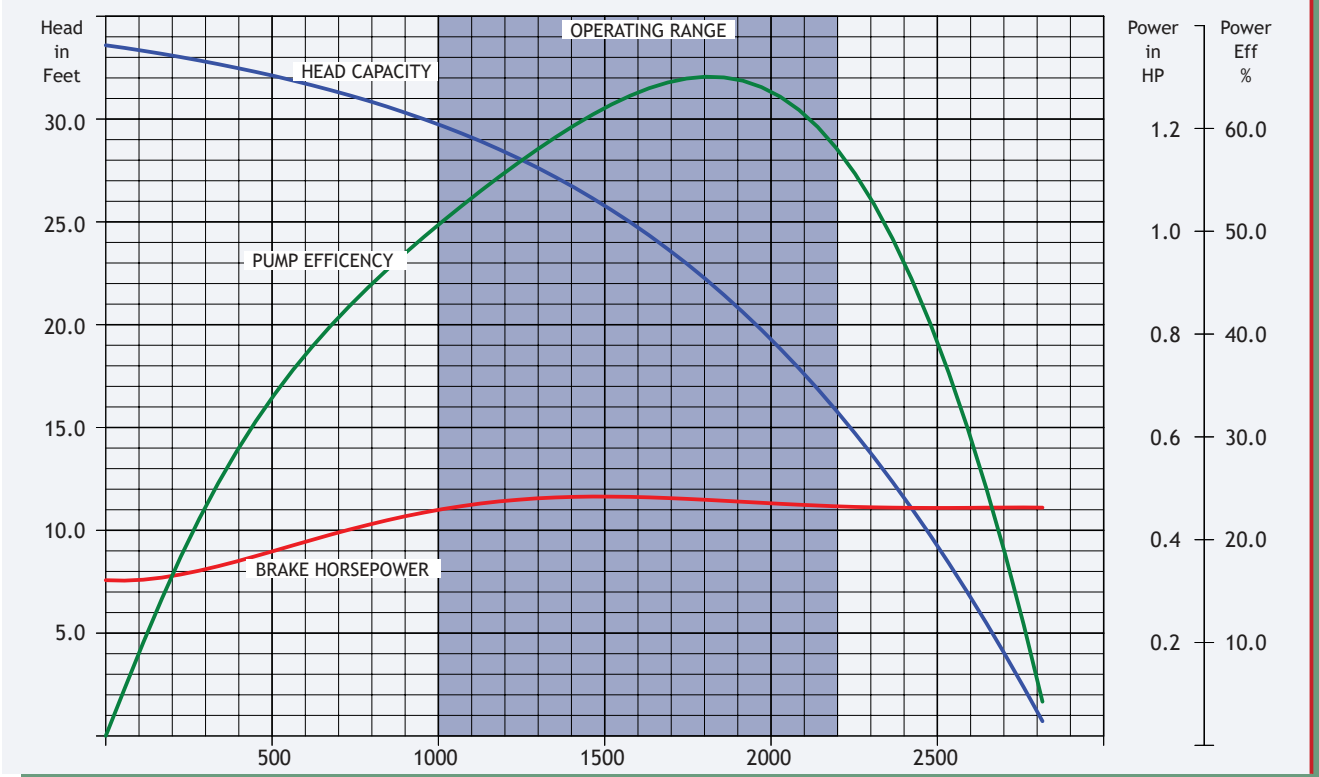
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

400 SERIES 400-1600

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

400 Series 4.00 In(101.6 mmOD)

400-1800

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
10	2.5	110	8
20	4.0	155	17
30	5.5	195	26
40	7.0	240	35
50	8.5	280	44
60	10.0	325	53
70	11.5	365	62
80	13.0	410	71
90	14.5	450	80
100	16.0	495	89
110	17.5	535	98
120	19.0	580	107
130	20.5	620	116
140	22.0	665	125
150	23.5	705	134

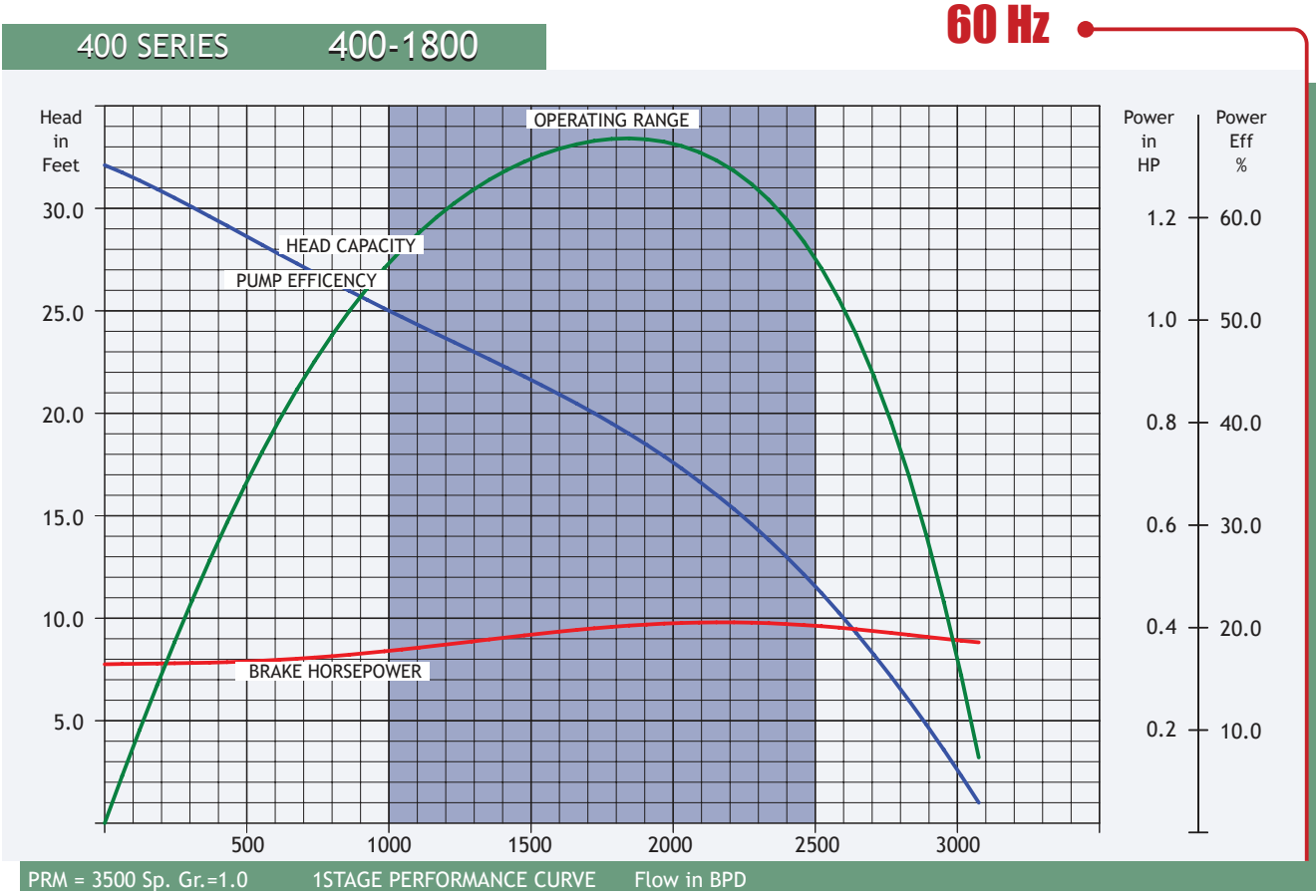
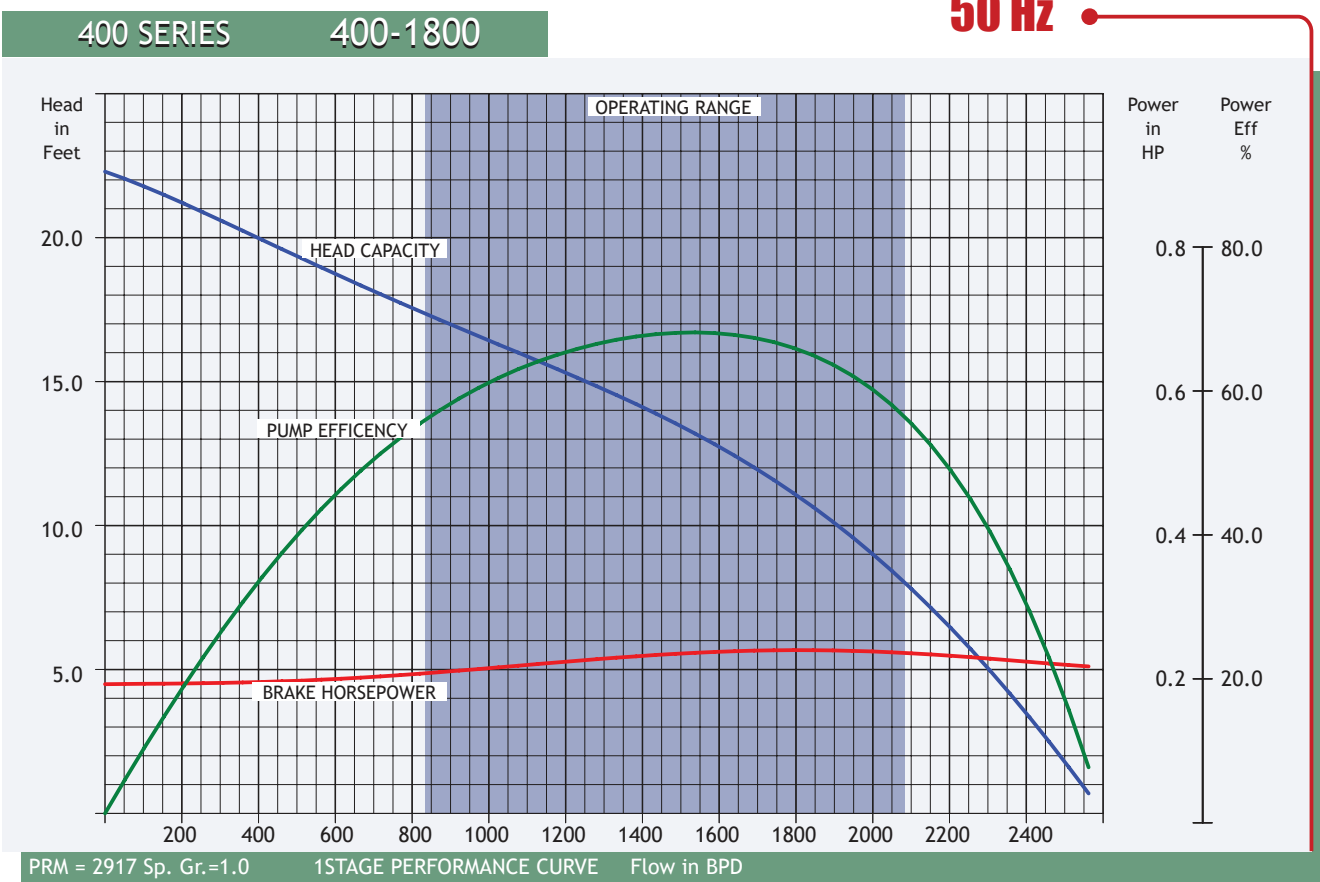
Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

400 SERIES PUMP



400-1800



400 Series 4.00 In(101.6 mmOD)

400-2200

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
2	5.2	125	22
3	6.7	159	33
4	8.2	192	44
5	9.7	228	56
6	11.2	261	67
7	12.7	296	78
8	14.2	331	90
9	15.7	364	101
10	17.2	398	112
11	18.7	433	124
12	20.2	468	135
13	21.7	501	146
14	23.2	535	157
15	24.7	570	169

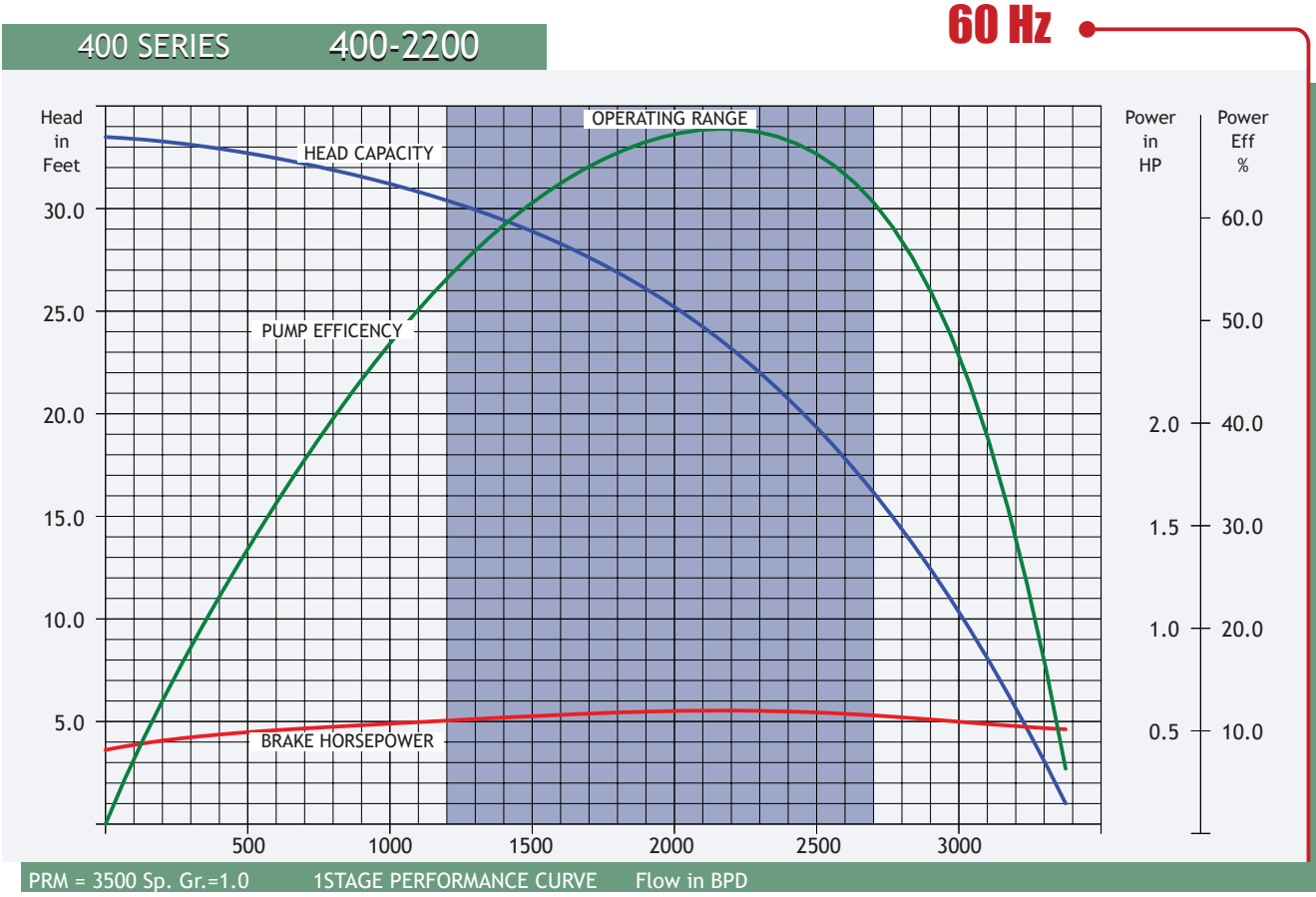
Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

400 SERIES PUMP



400-2200



400 Series 4.00 In(101.6 mmOD)

400-3000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	44	6
2	3.5	74	14
3	4.9	105	21
4	6.3	135	29
5	7.8	166	36
6	9.2	196	44
7	10.6	226	51
8	12	257	59
9	13.4	287	66
10	14.8	318	74
11	16.2	348	81
12	17.6	378	89
13	19	501	96
14	20.4	538	104
15	21.8	577	111

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

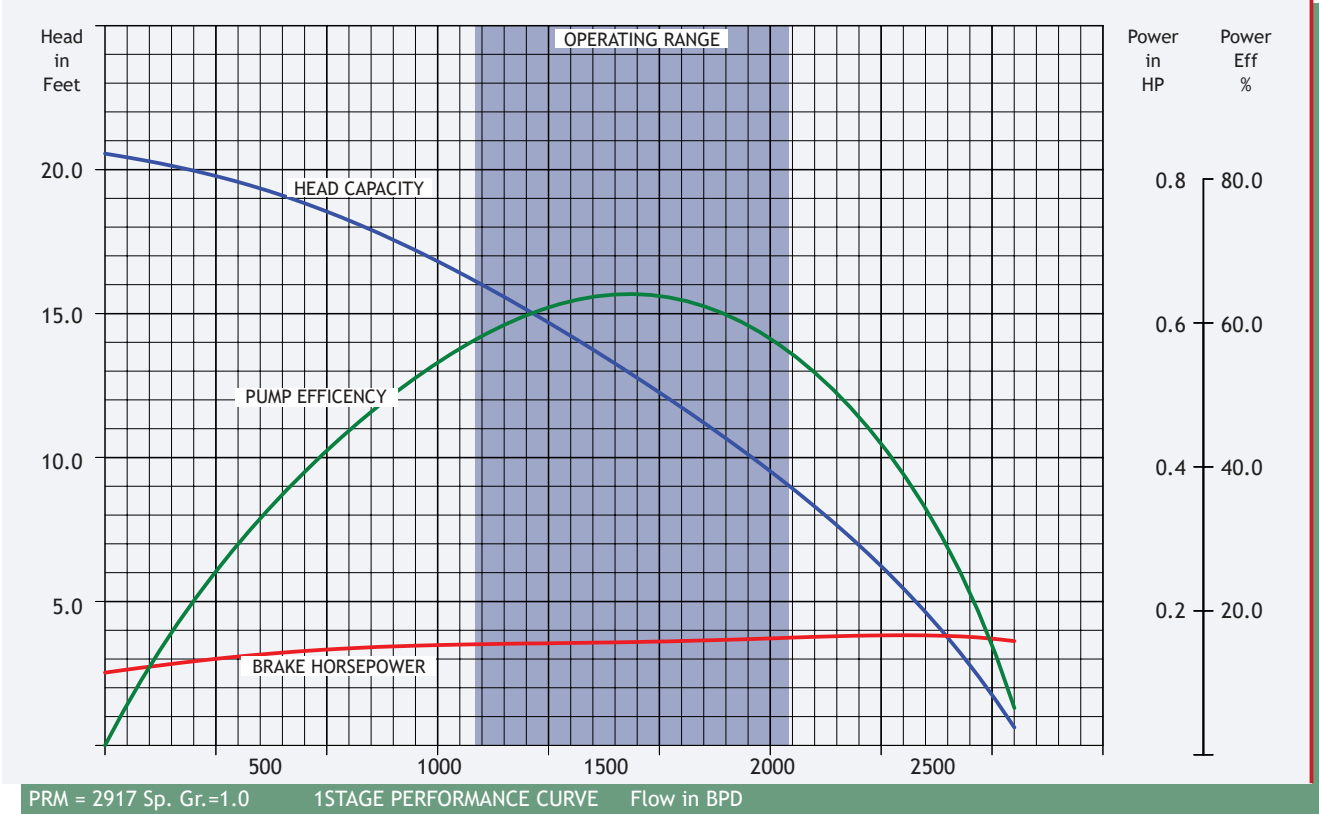
400 SERIES PUMP



400-3000

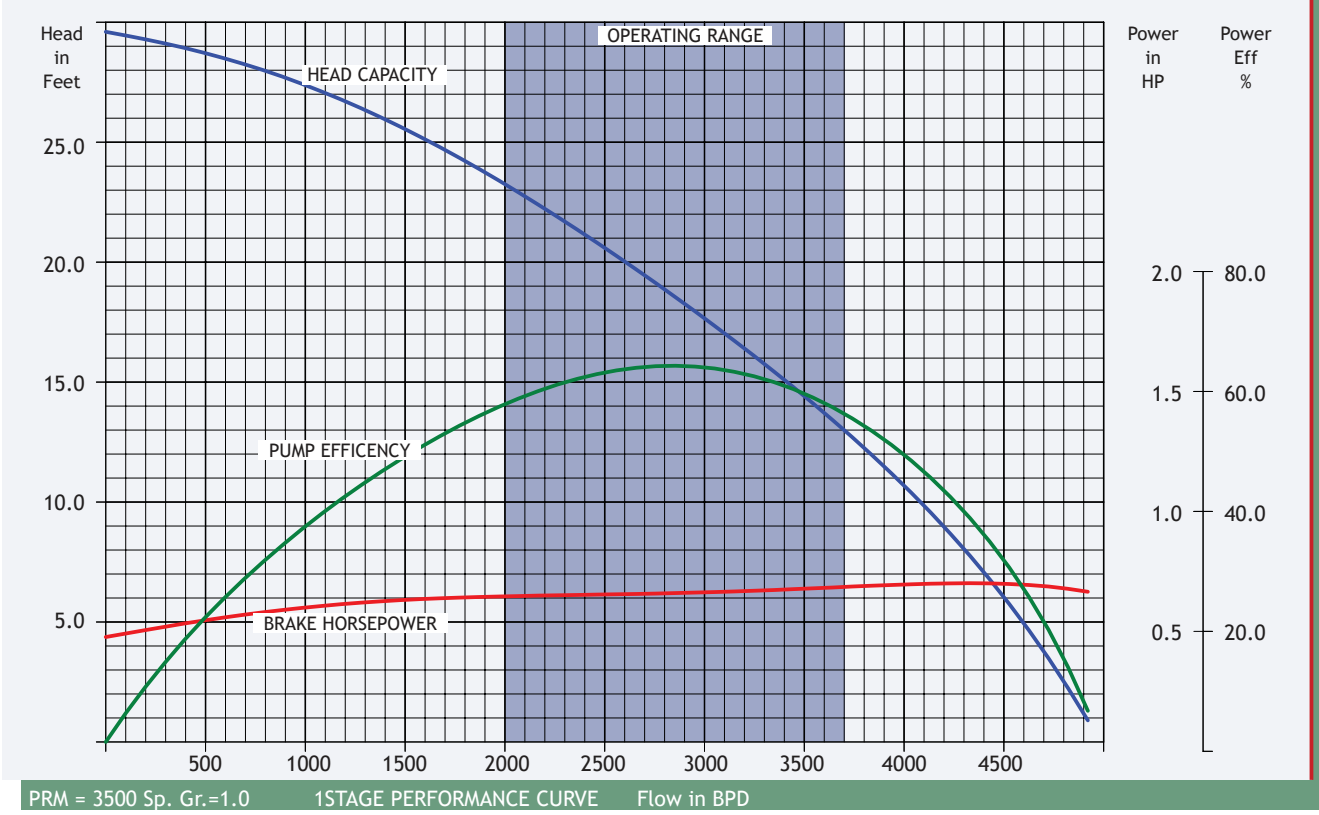
400 SERIES 400-3000

50 Hz



400 SERIES 400-3000

60 Hz



400 Series

4.00 In(101.6 mmOD)

400-4300			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	3	110	4
2	4.5	155	9
3	6	195	14
4	7.5	240	19
5	9.0	280	24
6	10.5	325	29
7	12.0	365	33
8	13.5	410	38
9	15.0	450	43
10	16.5	495	48
11	18.0	535	53
12	19.5	580	58
13	21.0	620	63
14	22.5	665	68
15	24.0	705	72

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

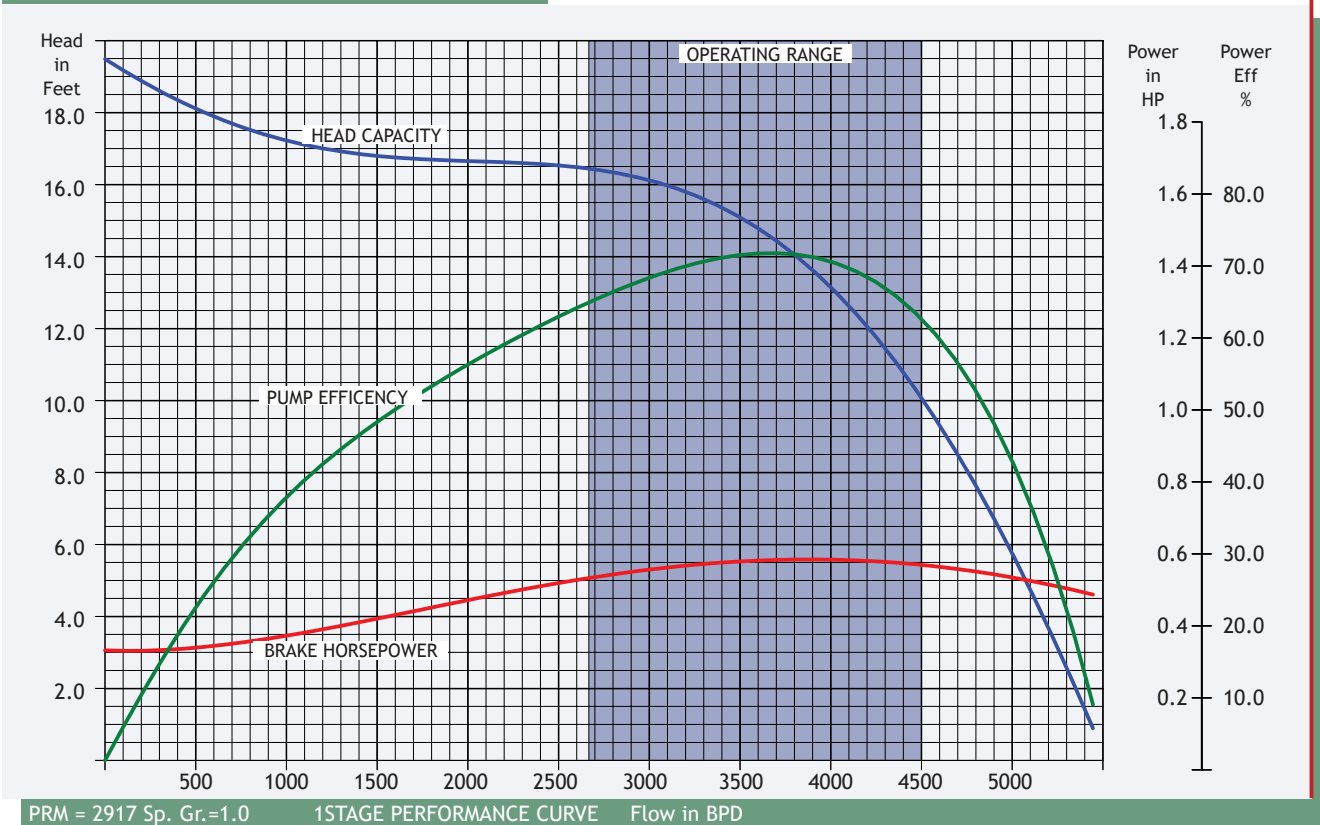
400 SERIES PUMP



400-4300

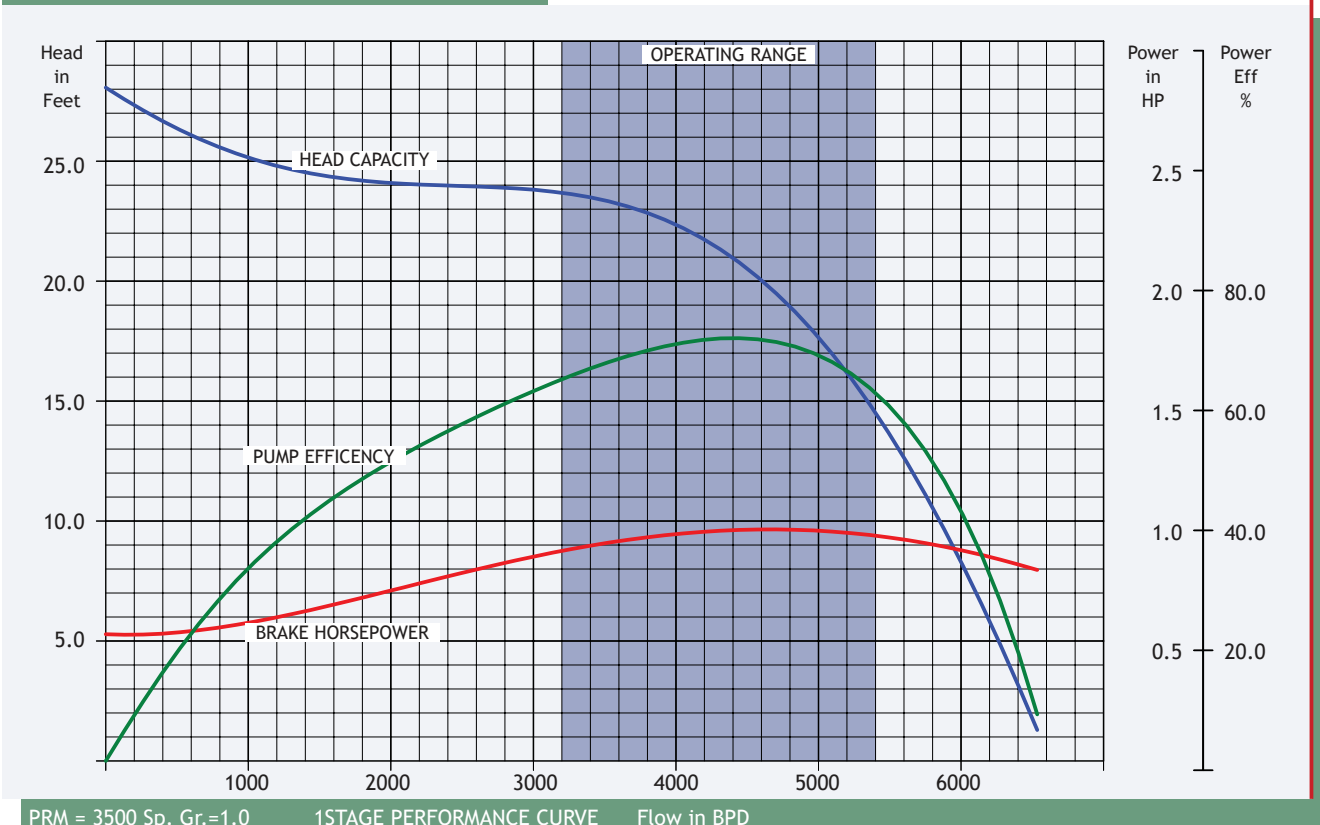
400 SERIES 400-4300

50 Hz



400 SERIES 400-4300

60 Hz



400-6000

400 Series 4.00 In(101.6 mmOD)

400-6000			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	3.0	110	4
2	4.5	155	9
3	6	195	14
4	7.5	240	19
5	9.0	280	24
6	10.5	325	29
7	12.0	365	33
8	13.5	410	38
9	15.0	450	43
10	16.5	495	48
11	18.0	535	53
12	19.5	580	58
13	21.0	620	63
14	22.5	665	68
15	24.0	705	72

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 2 3/8 IN. OD 8RD EUE	0.6	10
STANDARD BOLTO ON INTAKE *	1.0	28
STANDARD GAS SEPARATOR TYPE **	4.0	74
* CARBON STEEL		** 0.875 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 4000 BPD		MINIMUM FLOW RATE 500 BPD

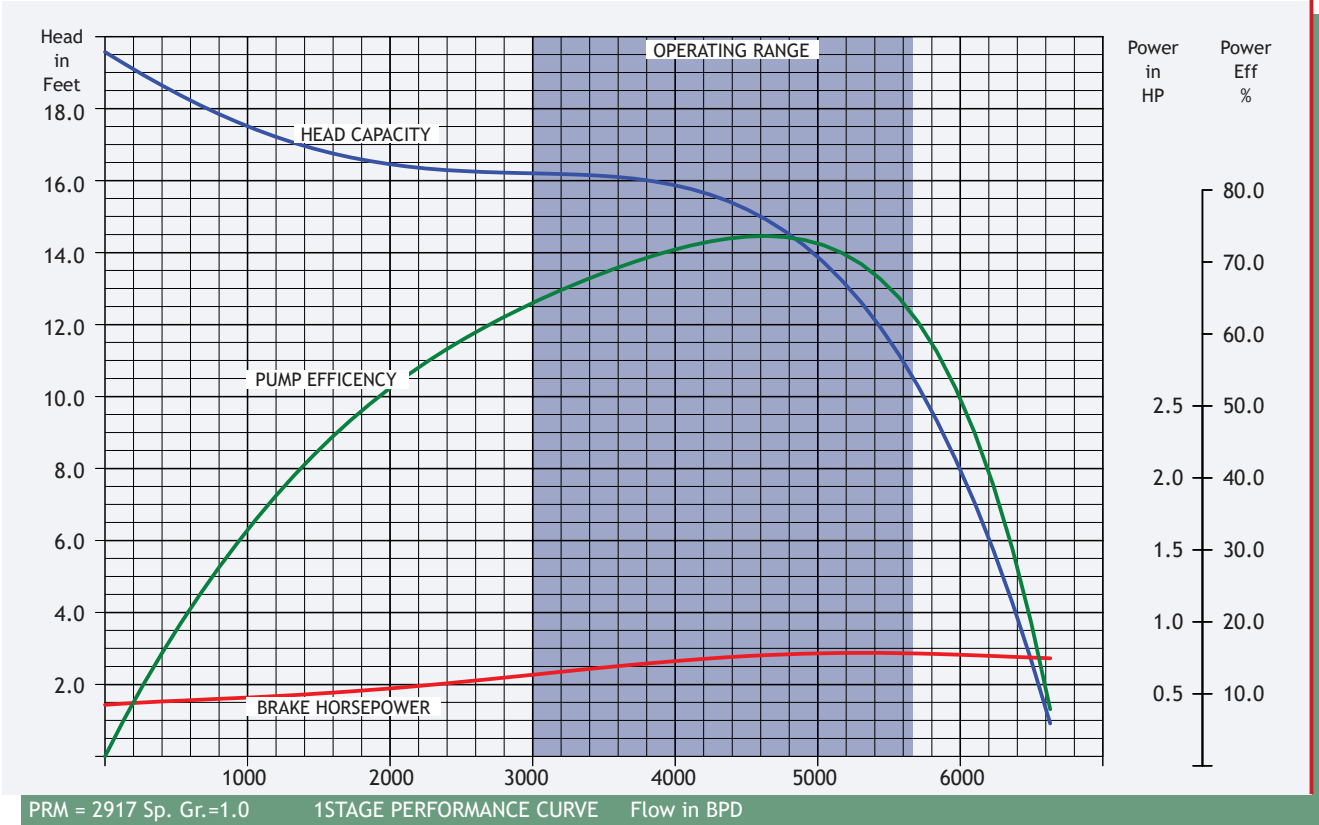
400 SERIES PUMP



400-6000

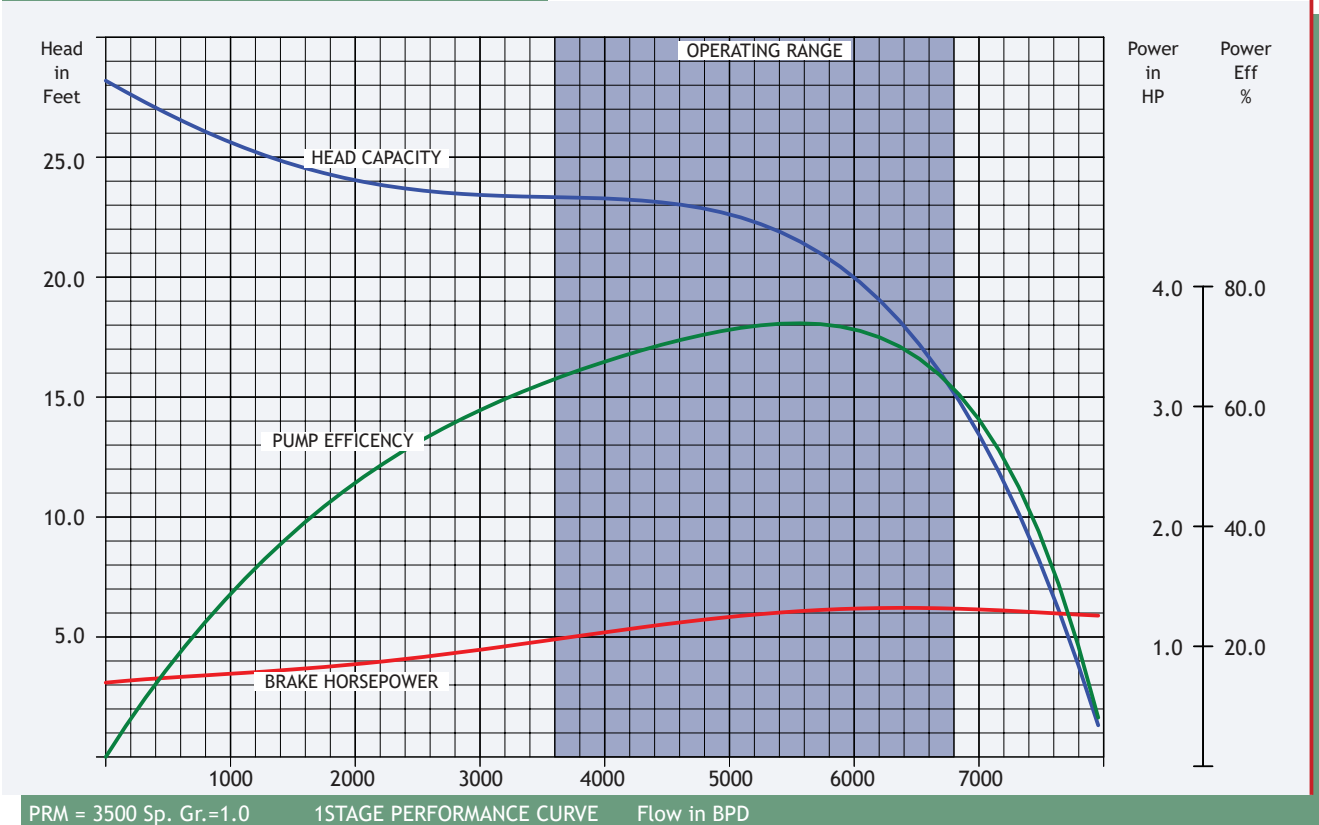
400 SERIES 400-6000

50 Hz



400 SERIES 400-6000

60 Hz



538 Series 5.38 In(136.6 mm OD)

538-1600

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	4.0	146	10
1	4.0	161	15
2	5.5	201	20
2	5.5	215	25
2	5.5	229	30
3	7.0	285	40
3	7.0	299	45
4	8.5	367	60
5	10.0	436	75
6	11.5	505	90
7	13.0	574	105
8	14.5	644	121
9	16.0	714	136
10	17.5	782	151
11	19.0	851	166
12	20.0	920	181
13	22.0	989	196
14	23.0	1060	212
15	25.0	1129	227
16	26.5	1198	242
17	28.0	1266	257
18	29.5	1334	272

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

538-1600

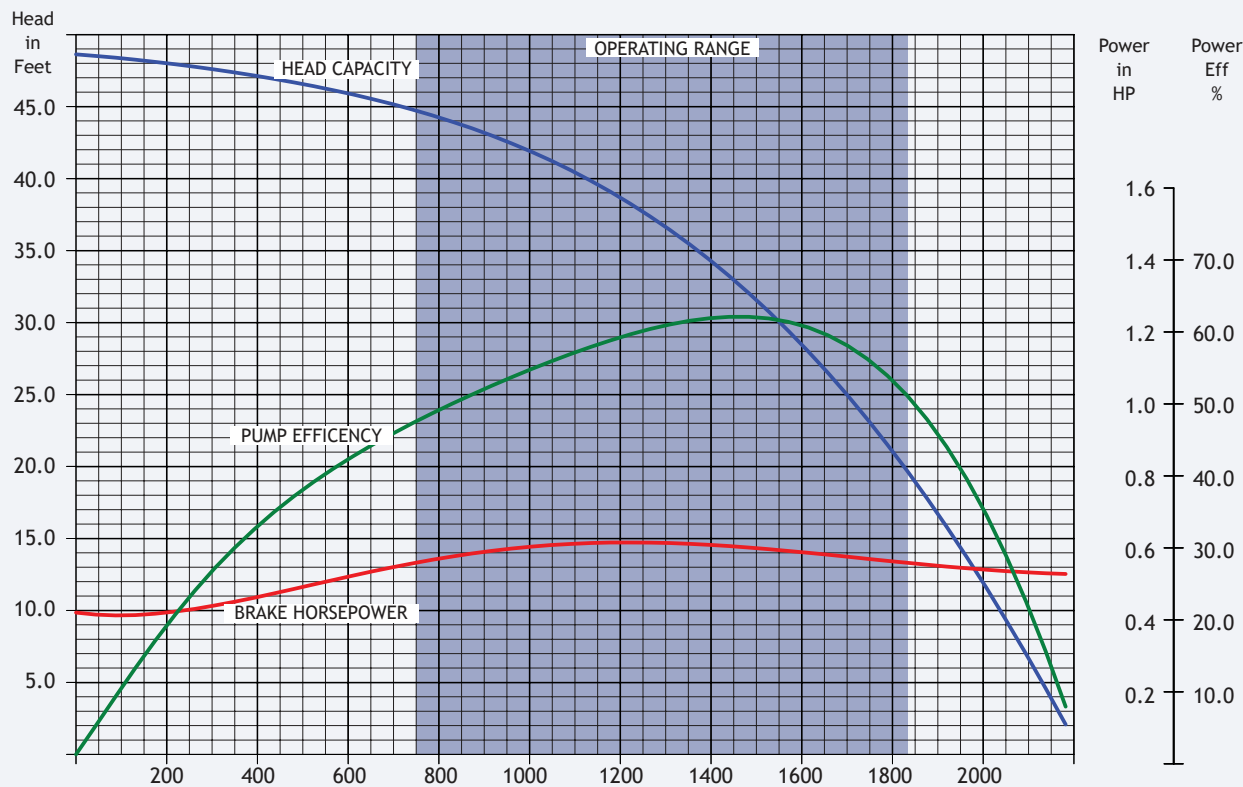
538 SERIES PUMP



538-1600

538 SERIES 538-1600

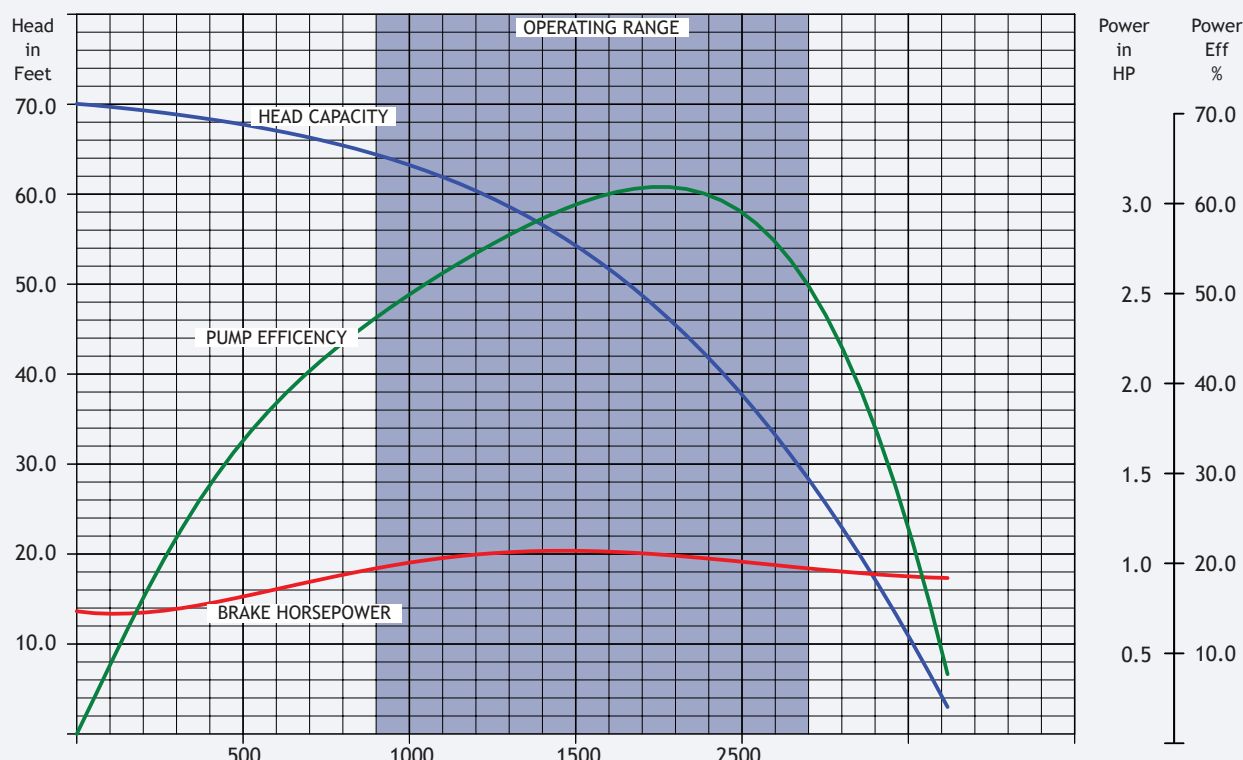
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

538 SERIES 538-1600

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

538 Series 5.38 In (136.6 mm OD)

538-2000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	4.0	156	14
2	5.5	198	20
2	5.5	217	27
3	7.0	263	34
3	7.0	282	41
4	8.5	346	55
5	10.0	410	69
6	11.5	475	83
7	13.0	539	97
8	14.5	602	111
9	16.0	667	125
10	17.5	731	139
11	19.0	795	153
12	20.0	860	167
13	22.0	923	181
14	23.0	987	195
15	25.0	1051	209
16	26.5	1116	223
17	28.0	1179	237
18	29.5	1243	251

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

538-2000

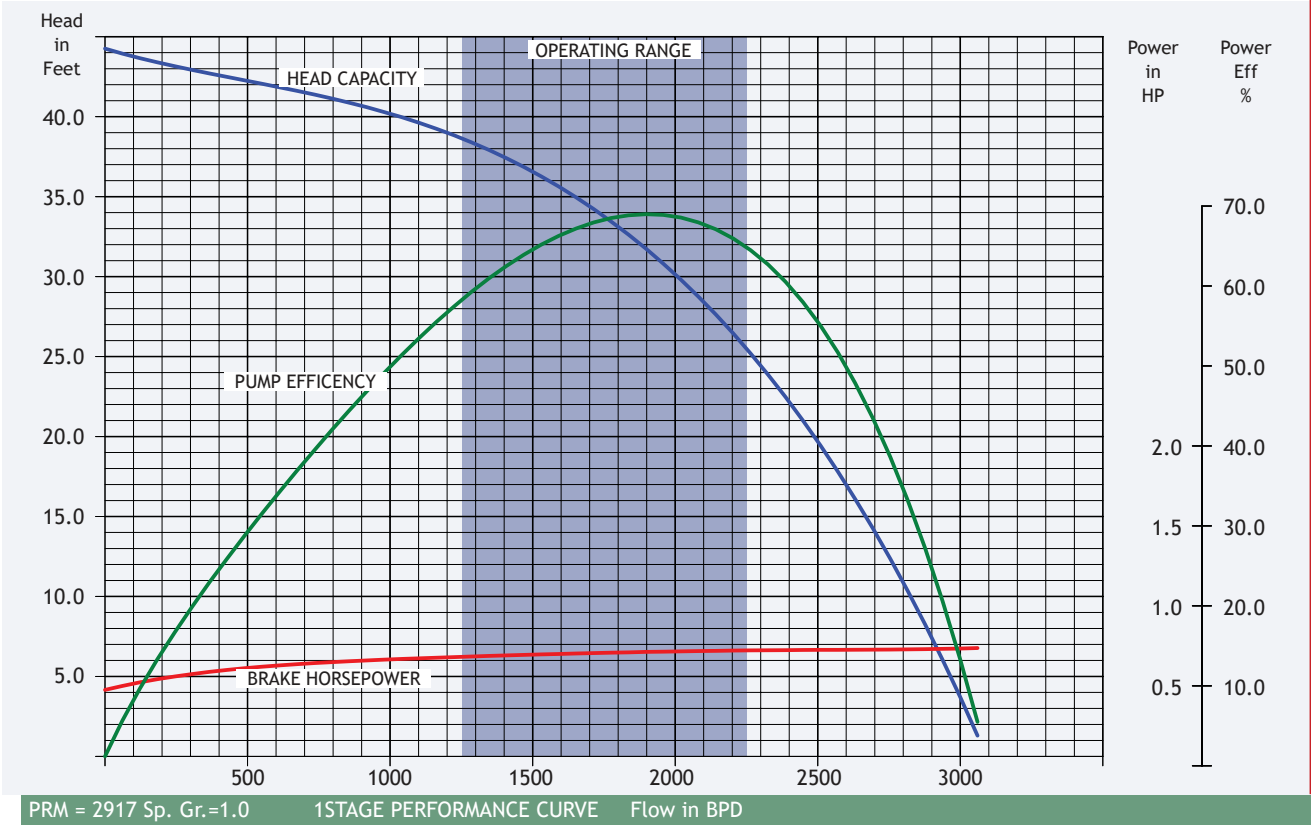
538 SERIES PUMP



538-2000

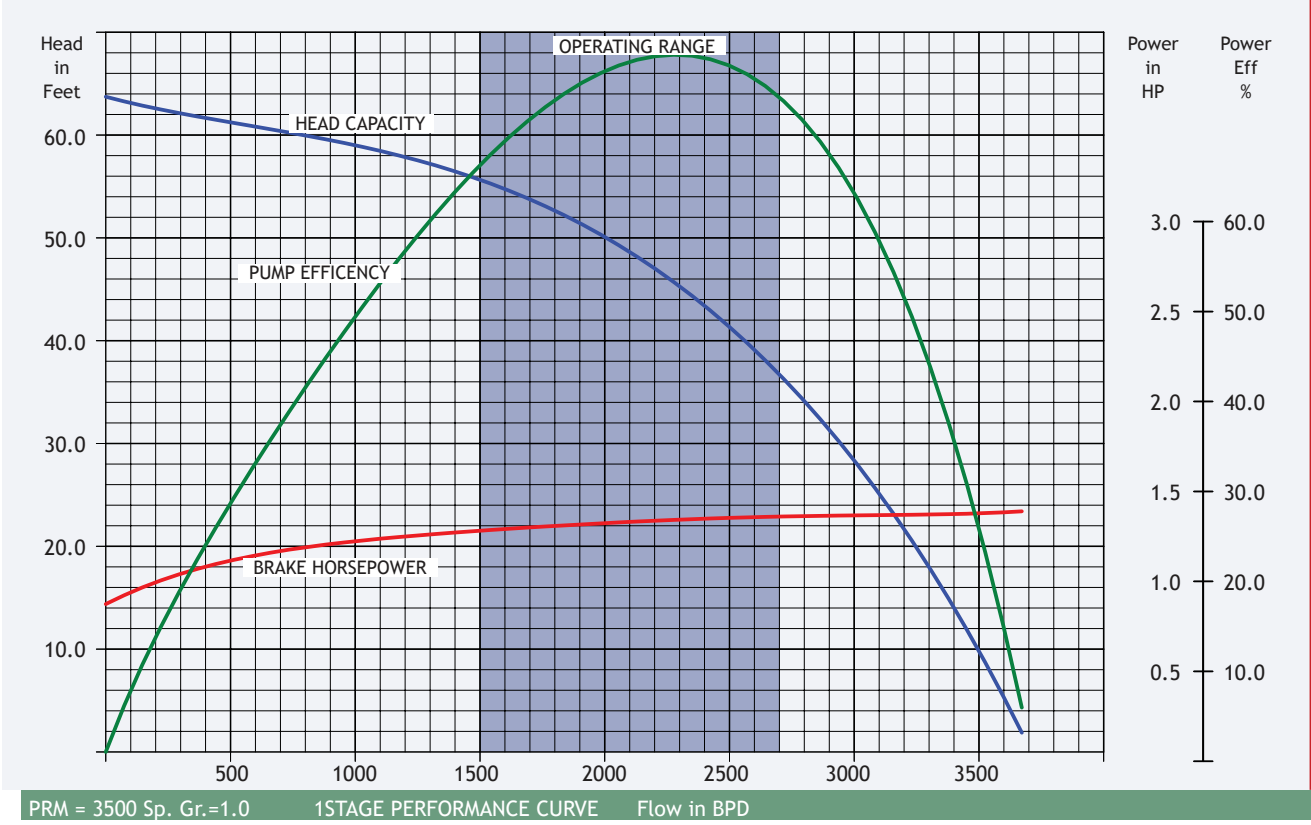
538 SERIES 538-2000

50 Hz



538 SERIES 538-2000

60 Hz



538 Series 5.38 In (136.6 mm OD)

538-2800

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	4.0	156	10
2	5.5	205	16
2	5.5	223	21
3	7.0	269	26
3	7.0	291	32
4	8.5	359	43
5	10.0	426	54
6	11.5	495	65
7	13.0	562	76
8	14.5	629	87
9	16.0	697	98
10	17.5	765	109
11	19.0	832	120
12	20.0	900	130
13	22.0	964	141
14	23.0	1031	152
15	25.0	1099	163
16	26.5	1167	173
17	28.0	1233	185
18	29.5	1301	196

Length includes shipping caps

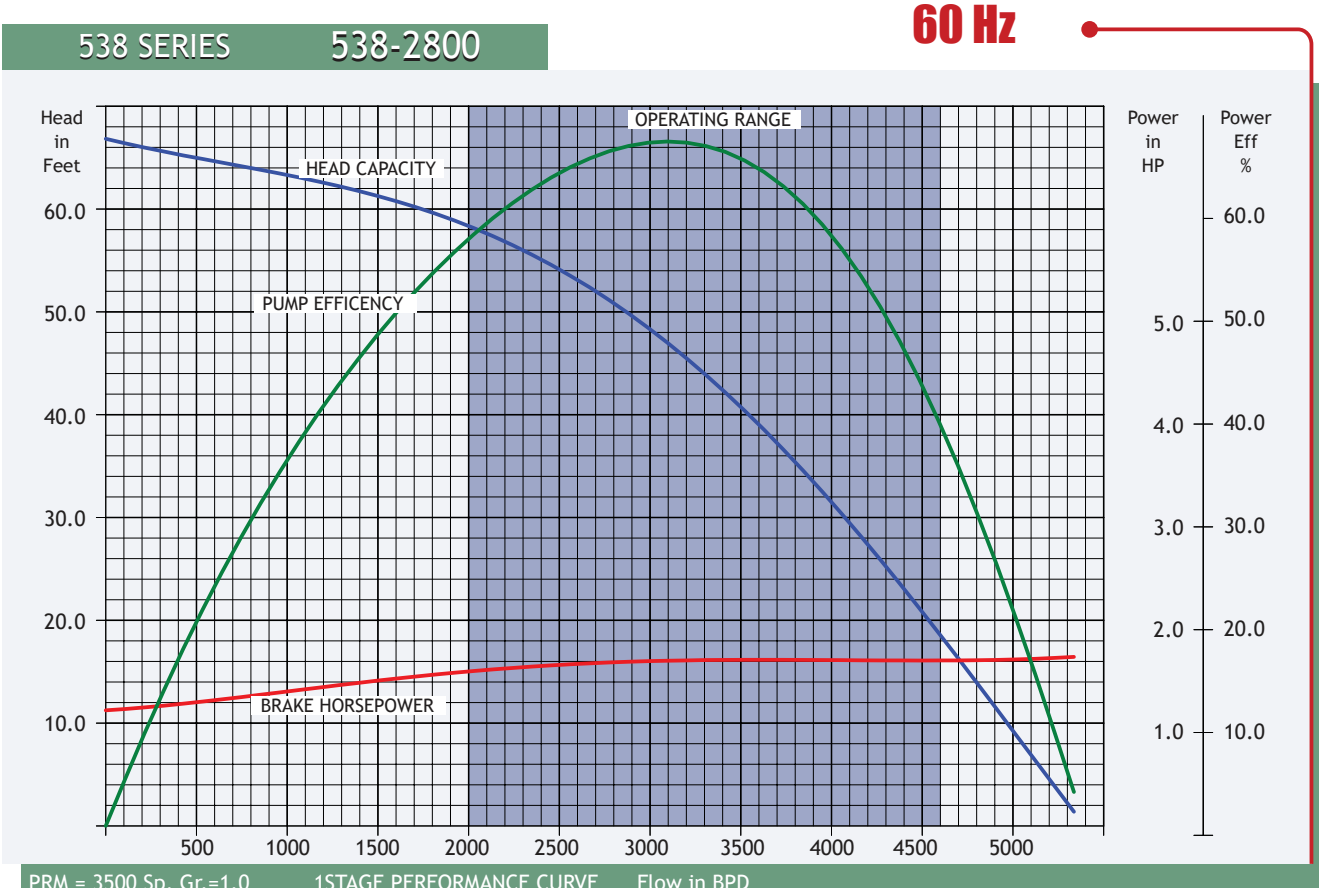
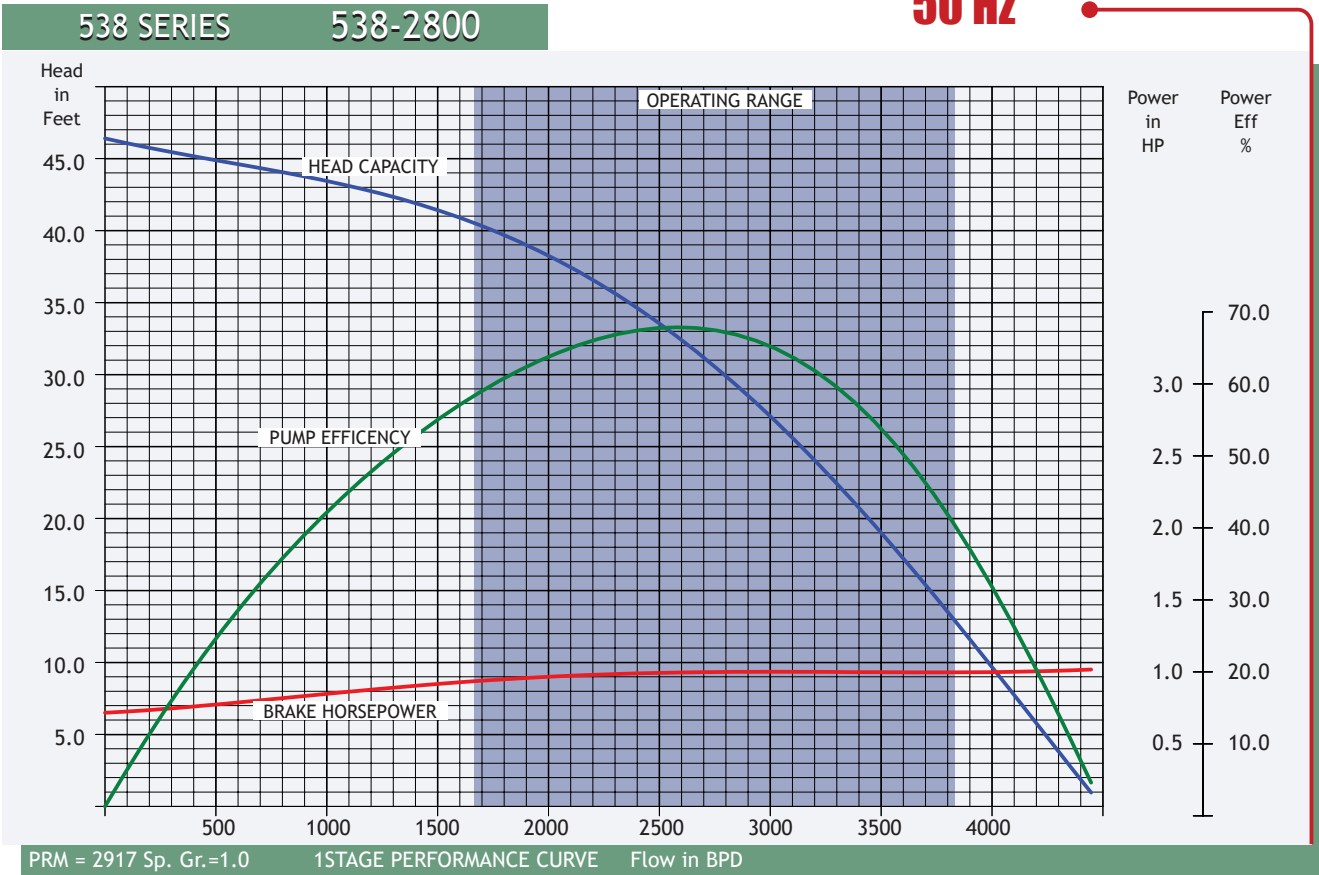
DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

538-2800

538 SERIES PUMP



538-2800



538 Series 5.38 In (136.6 mm OD)

538-3400

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	4.0	150	9
2	5.5	195	13
2	5.5	207	16
2	5.5	219	19
3	7.0	273	26
3	7.0	285	29
4	8.5	351	39
5	10.0	408	49
6	11.5	482	59
7	13.0	547	69
8	14.5	612	79
9	16.0	678	89
10	17.5	743	99
11	19.0	809	109
12	20.0	875	119
13	22.0	940	129
14	23.0	1005	139
15	25.0	1071	149
16	26.5	1137	159
17	28.0	1201	169
18	29.5	1267	179

Length includes shipping caps

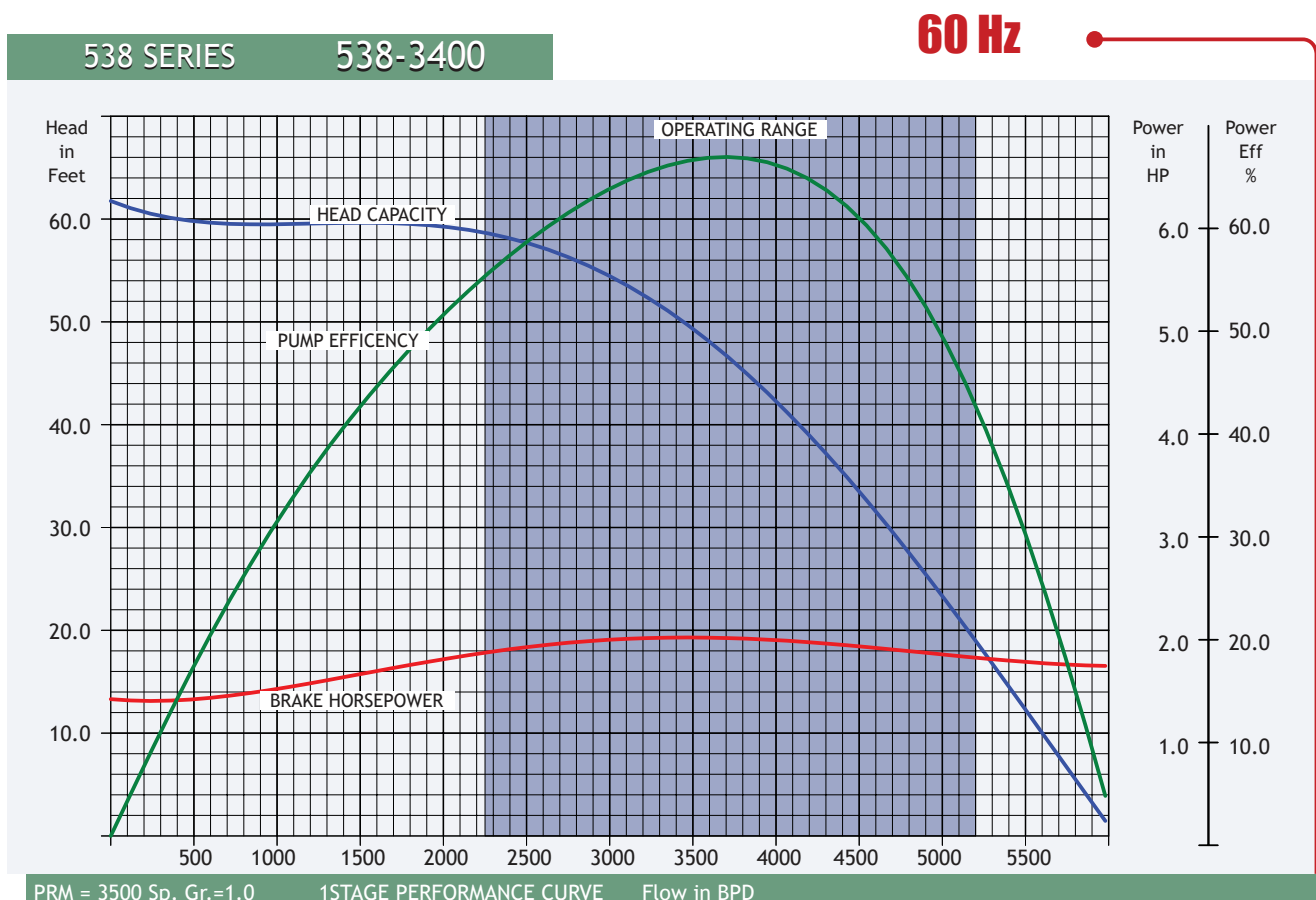
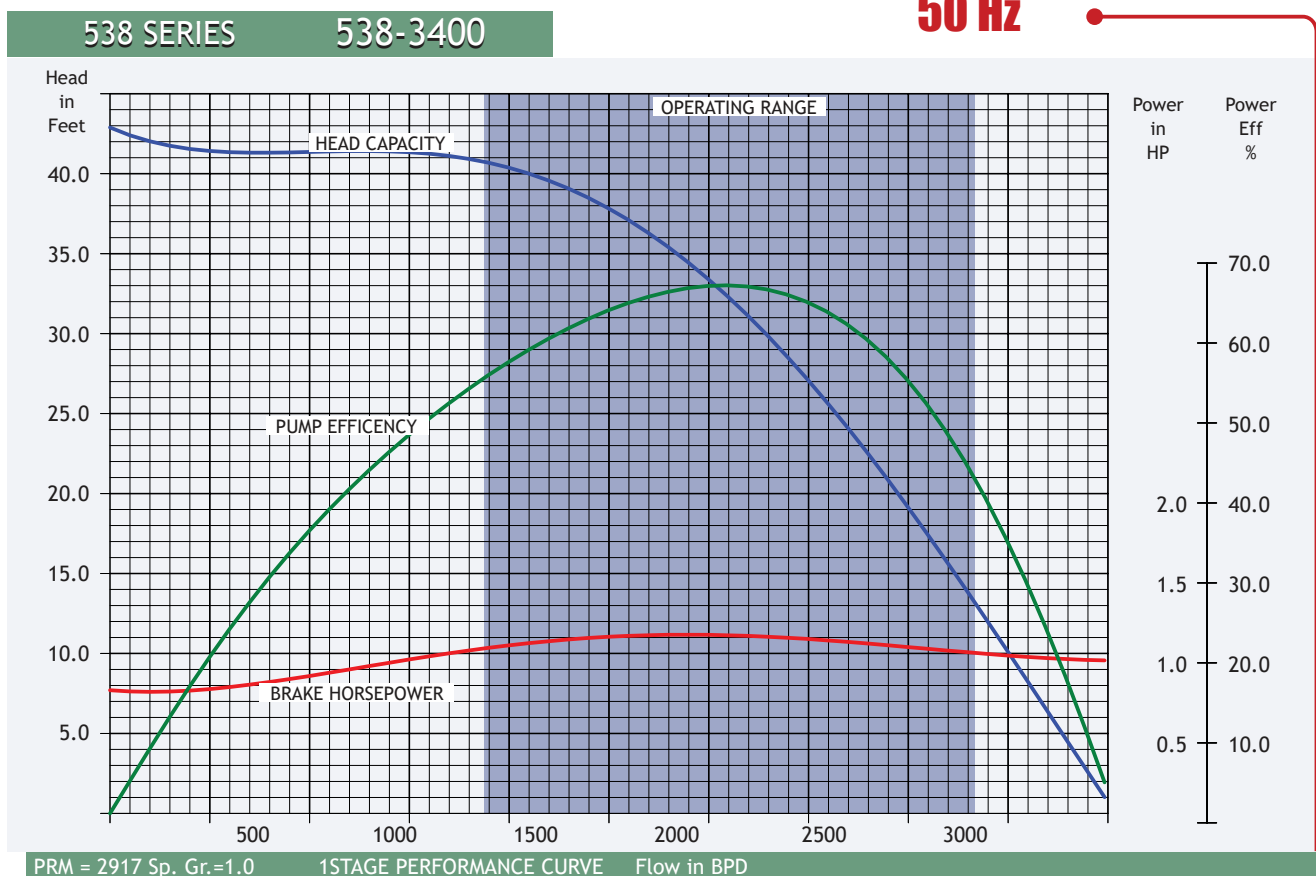
DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

538-3400

538 SERIES PUMP



538-3400



538 Series 5.38 In (136.6 mm OD)

538-4000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	77	5
2	3.5	145	12
3	4.9	213	18
4	6.3	272	25
5	7.7	340	32
6	9.1	407	39
7	10.5	467	46
8	11.9	535	52
9	13.3	602	59
10	14.7	662	66
11	16.1	730	73
12	17.5	789	79
13	18.9	857	86
14	20.4	924	93
15	21.8	984	100

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

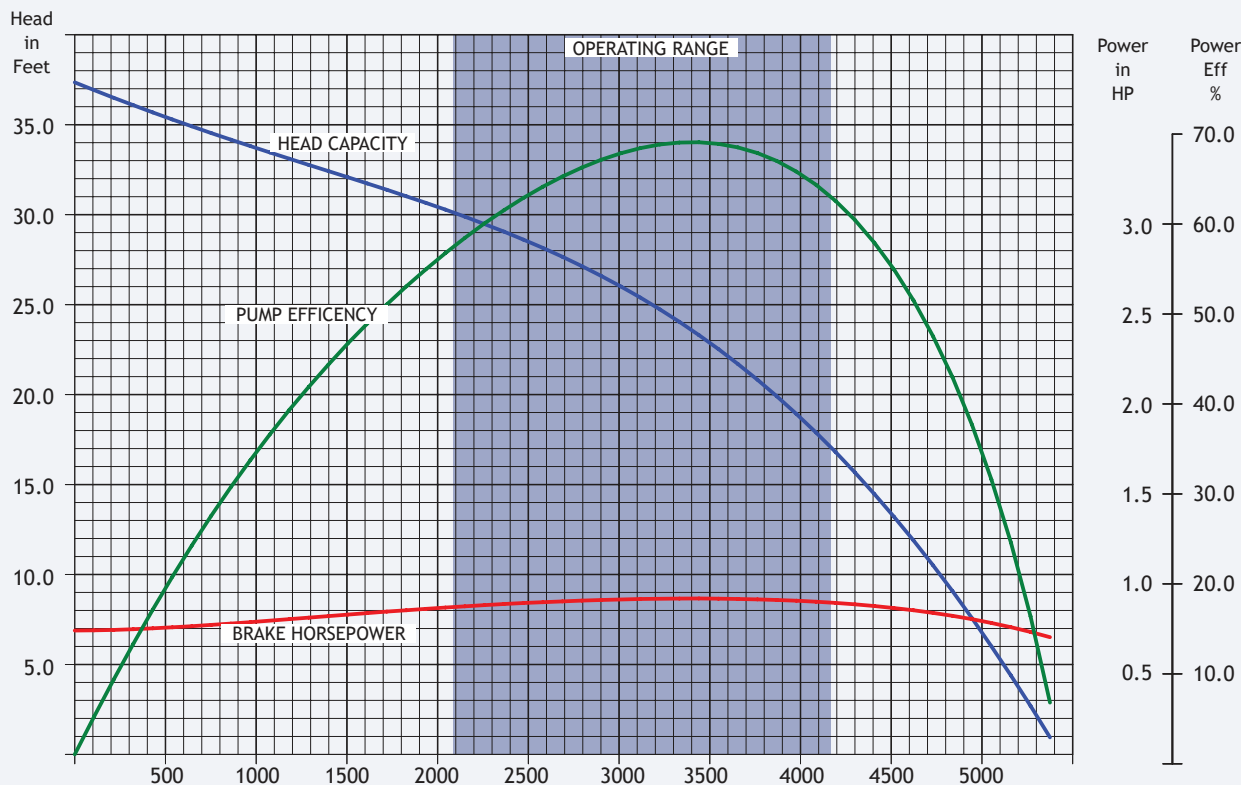
538 SERIES PUMP



538-4000

538 SERIES 538-4000

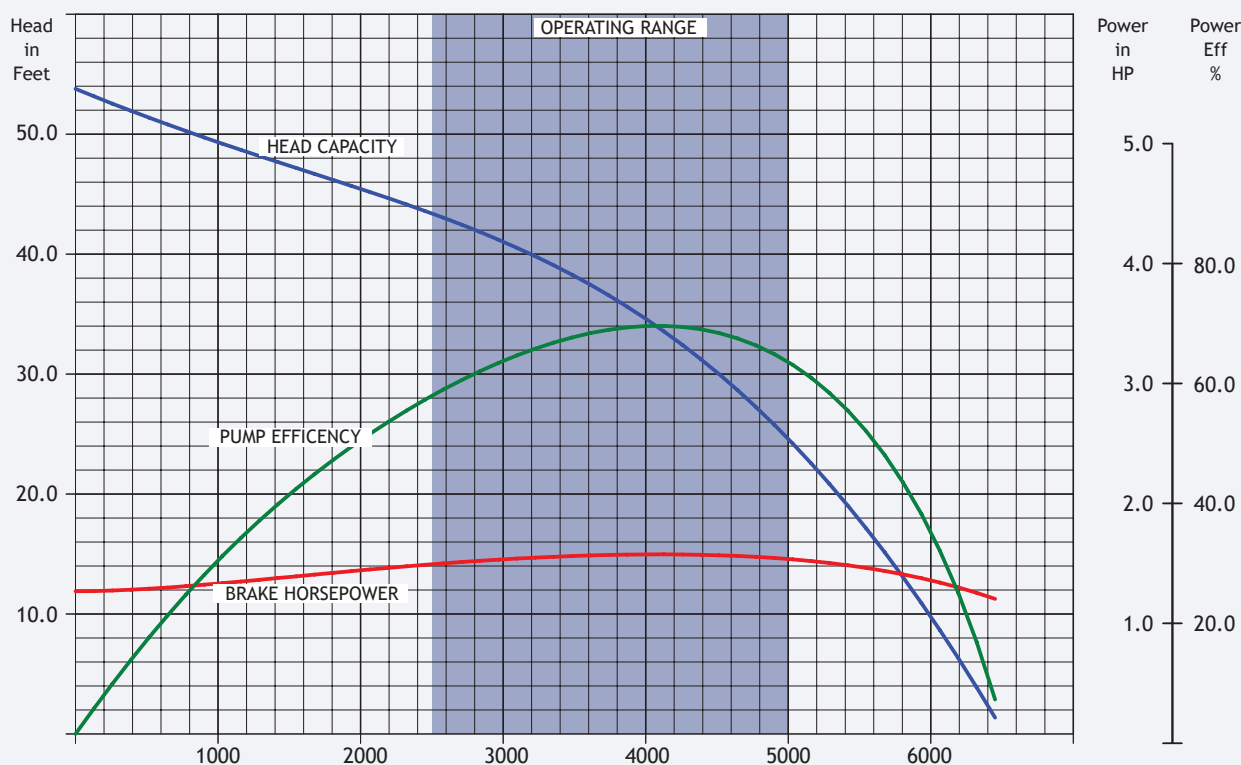
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

538 SERIES 538-4000

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

538 Series 5.38 In (136.6 mm OD)

538-5200

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	77	3
2	3.5	145	8
3	4.9	213	13
4	6.3	272	17
5	7.7	340	22
6	9.1	407	27
7	10.5	467	31
8	11.9	535	36
9	13.3	602	41
10	14.7	662	45
11	16.1	730	50
12	17.5	789	54
13	18.9	857	59
14	20.4	924	64
15	21.8	984	68

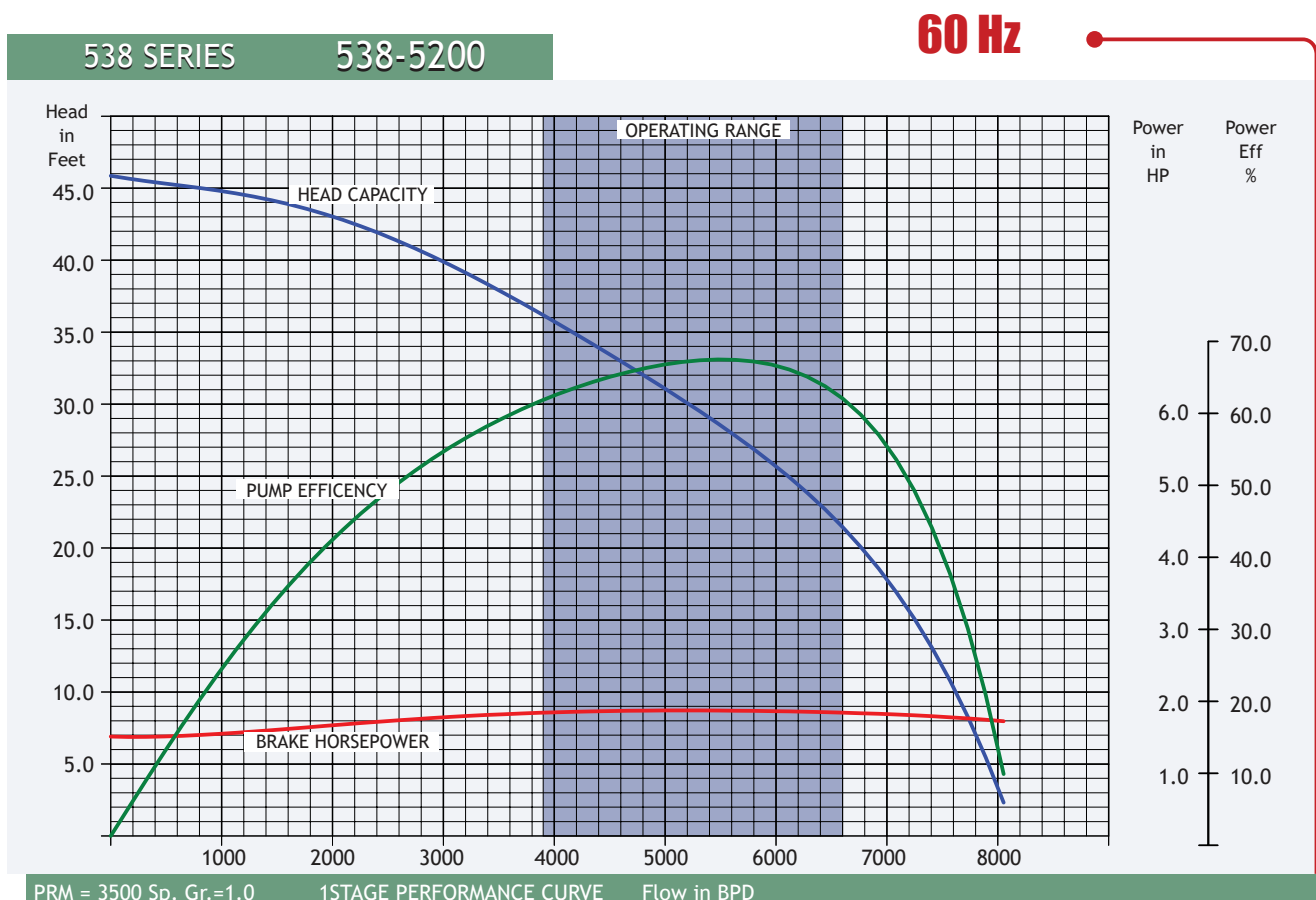
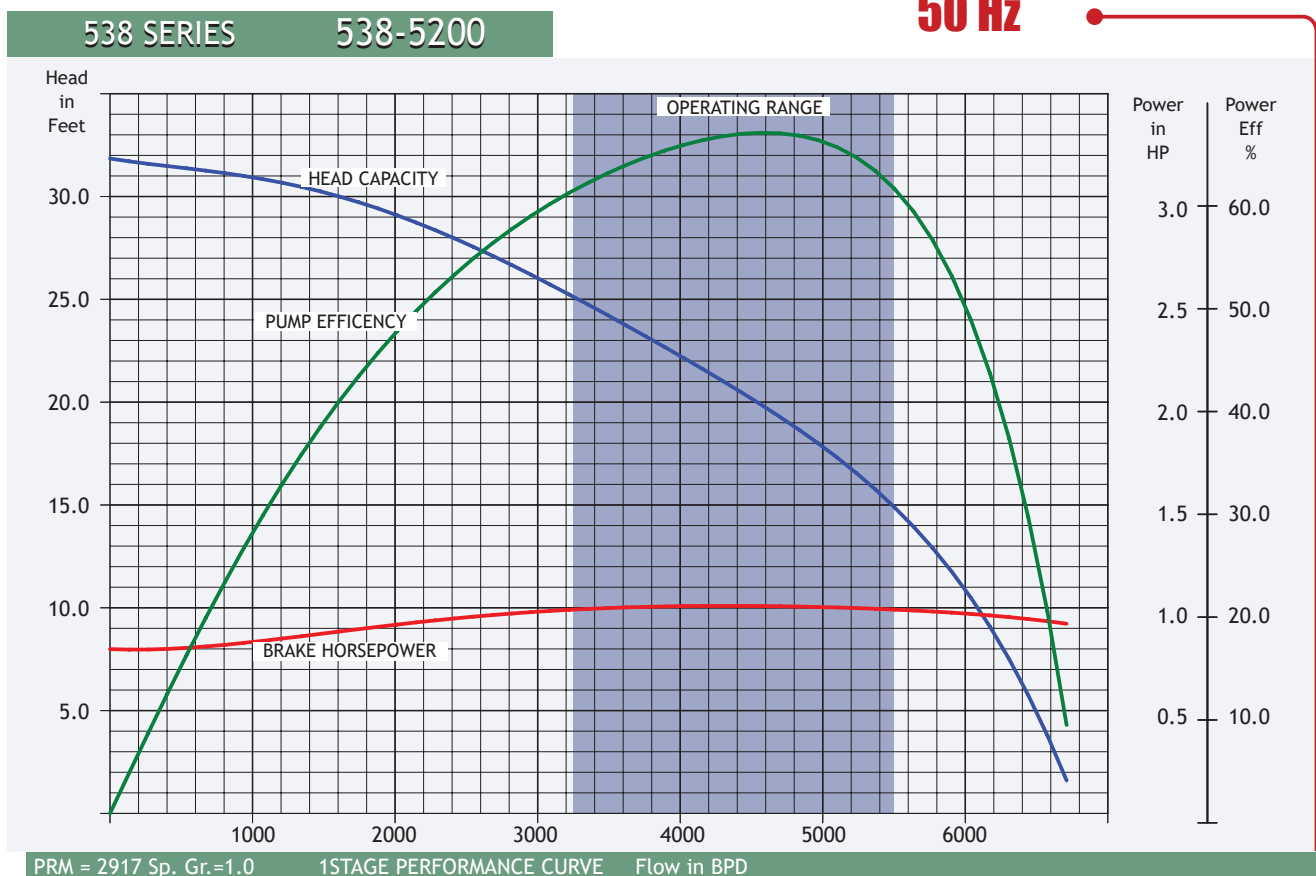
Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

538 SERIES PUMP



538-5200



538 Series 5.38 In (136.6 mm OD)

538-5600

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	77	3
2	3.5	145	8
3	4.9	213	13
4	6.3	272	17
5	7.7	340	22
6	9.1	407	27
7	10.5	467	31
8	11.9	535	36
9	13.3	602	41
10	14.7	662	45
11	16.1	730	50
12	17.5	789	54
13	18.9	857	59
14	20.4	924	64
15	21.8	984	68

Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

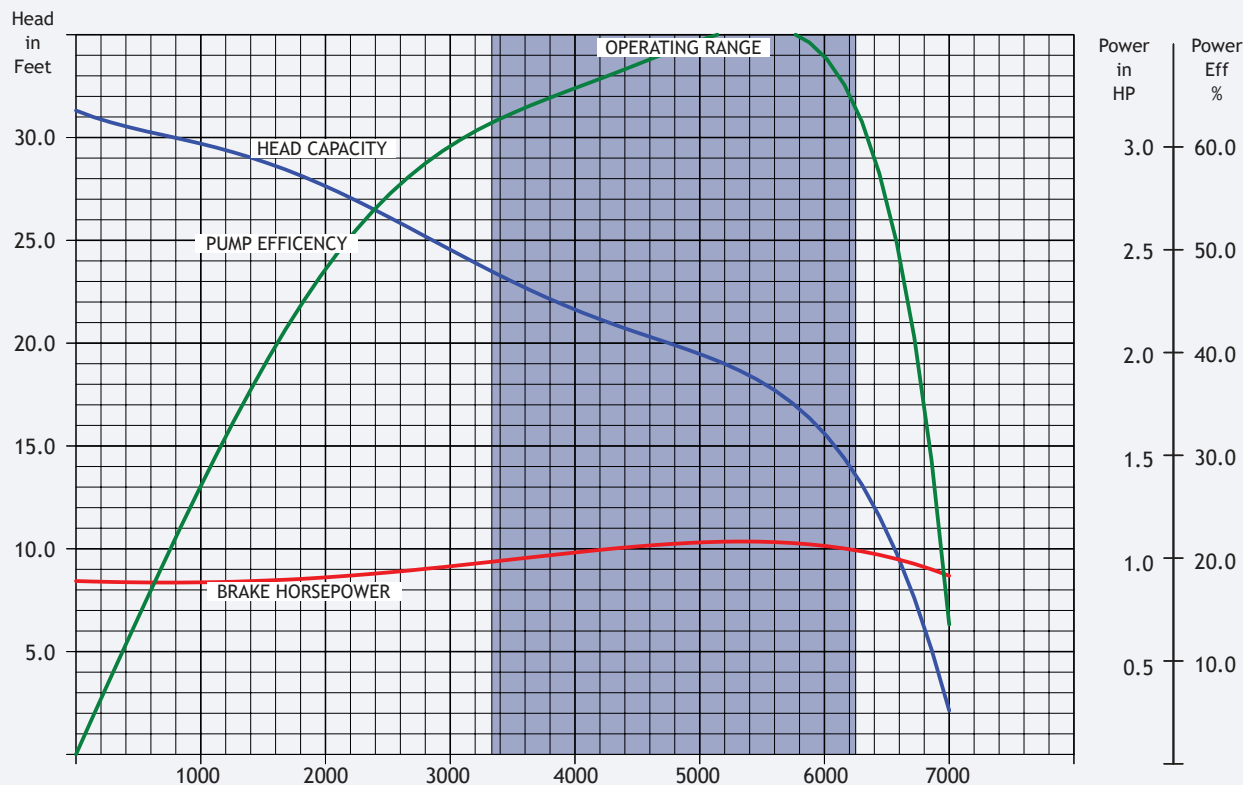
538 SERIES PUMP



538-5600

538 SERIES 538-5600

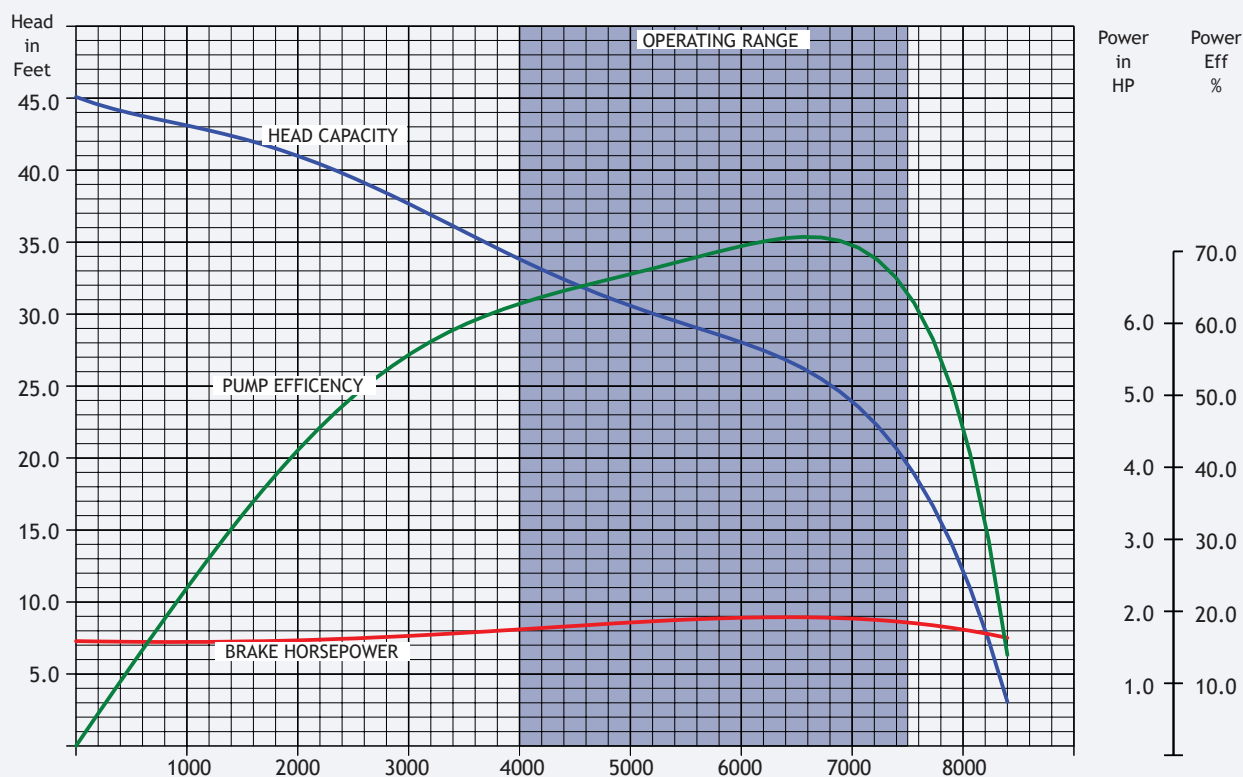
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

538 SERIES 538-5600

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

538 Series 5.38 In (136.6 mm OD)

538-7000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	77	3
2	3.5	145	8
3	4.9	213	13
4	6.3	272	17
5	7.7	340	22
6	9.1	407	27
7	10.5	467	31
8	11.9	535	36
9	13.3	602	41
10	14.7	662	45
11	16.1	730	50
12	17.5	789	54
13	18.9	857	59
14	20.4	924	64
15	21.8	984	68

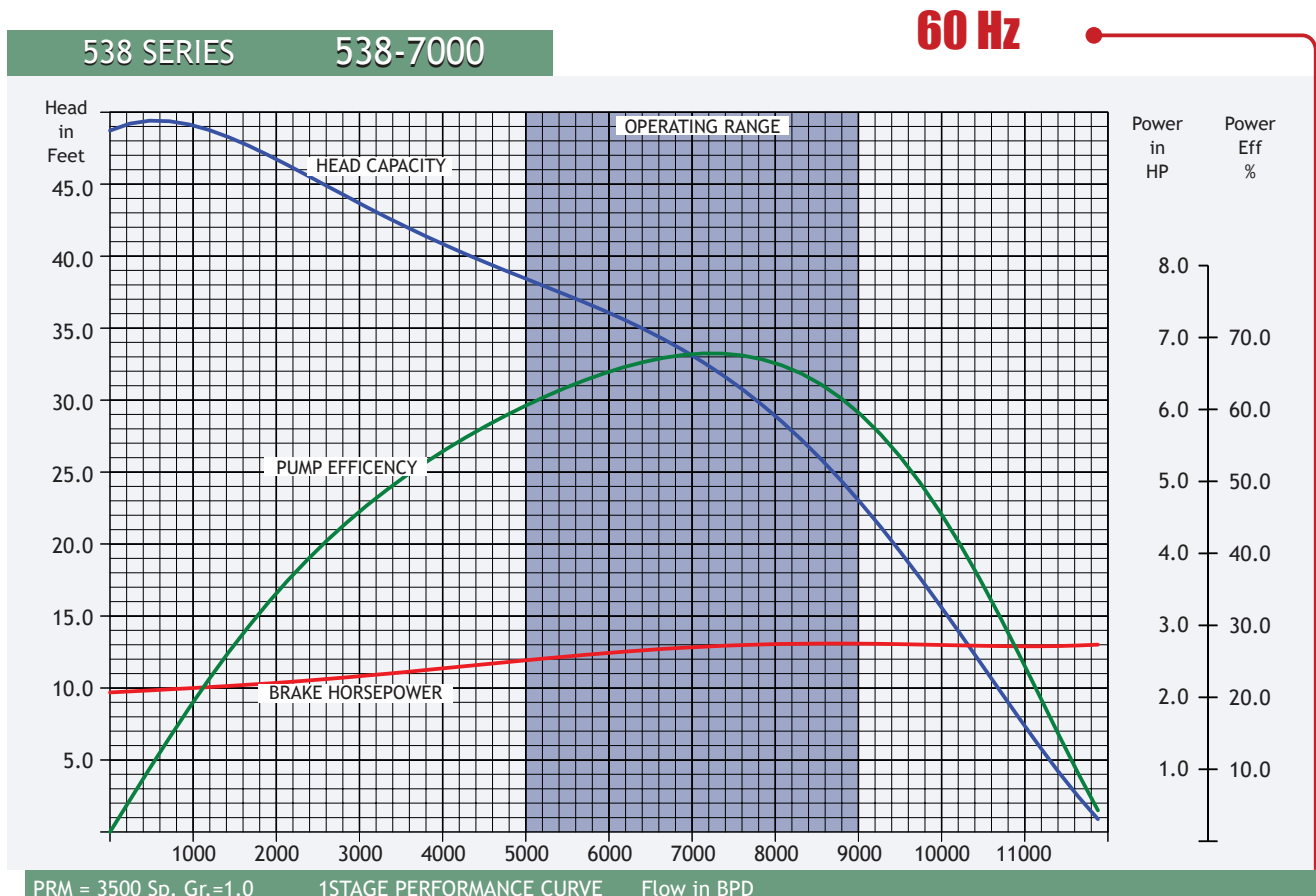
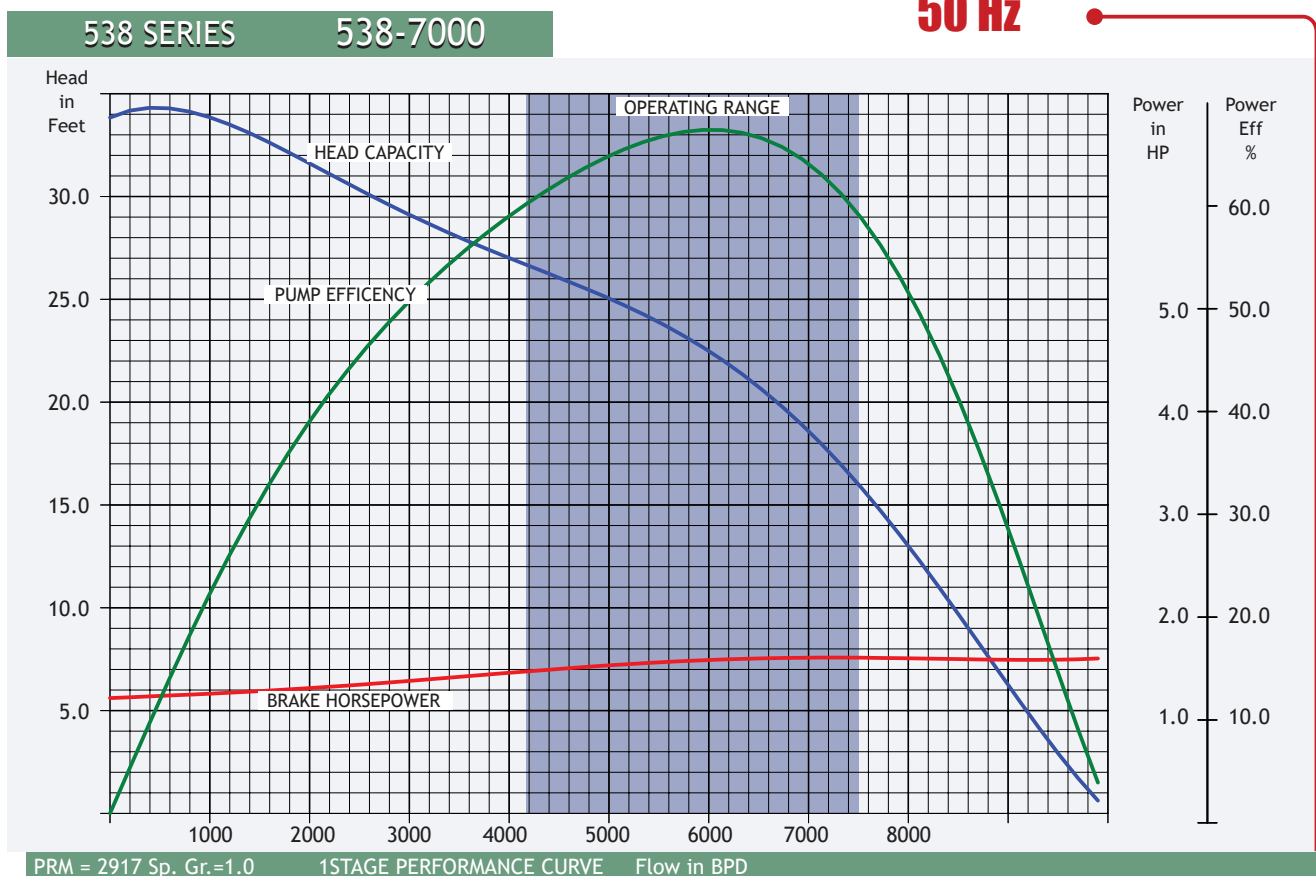
Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

538 SERIES MOTOR



538 SERIES MOTOR



538 Series 5.38 In (136.6 mm OD)

538-10000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.1	77	3
2	3.5	145	8
3	4.9	213	13
4	6.3	272	17
5	7.7	340	22
6	9.1	407	27
7	10.5	467	31
8	11.9	535	36
9	13.3	602	41
10	14.7	662	45
11	16.1	730	50
12	17.5	789	54
13	18.9	857	59
14	20.4	924	64
15	21.8	984	68

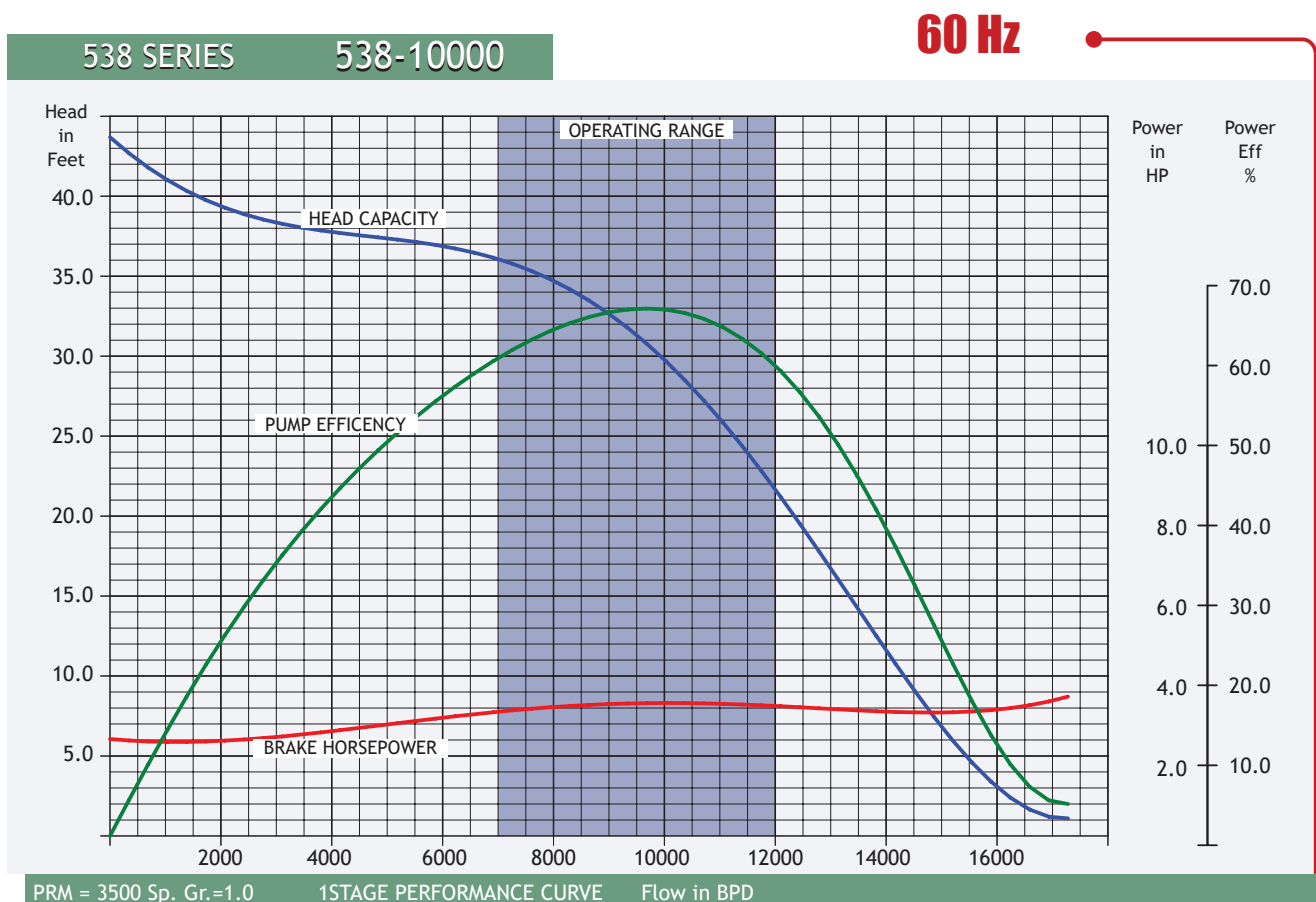
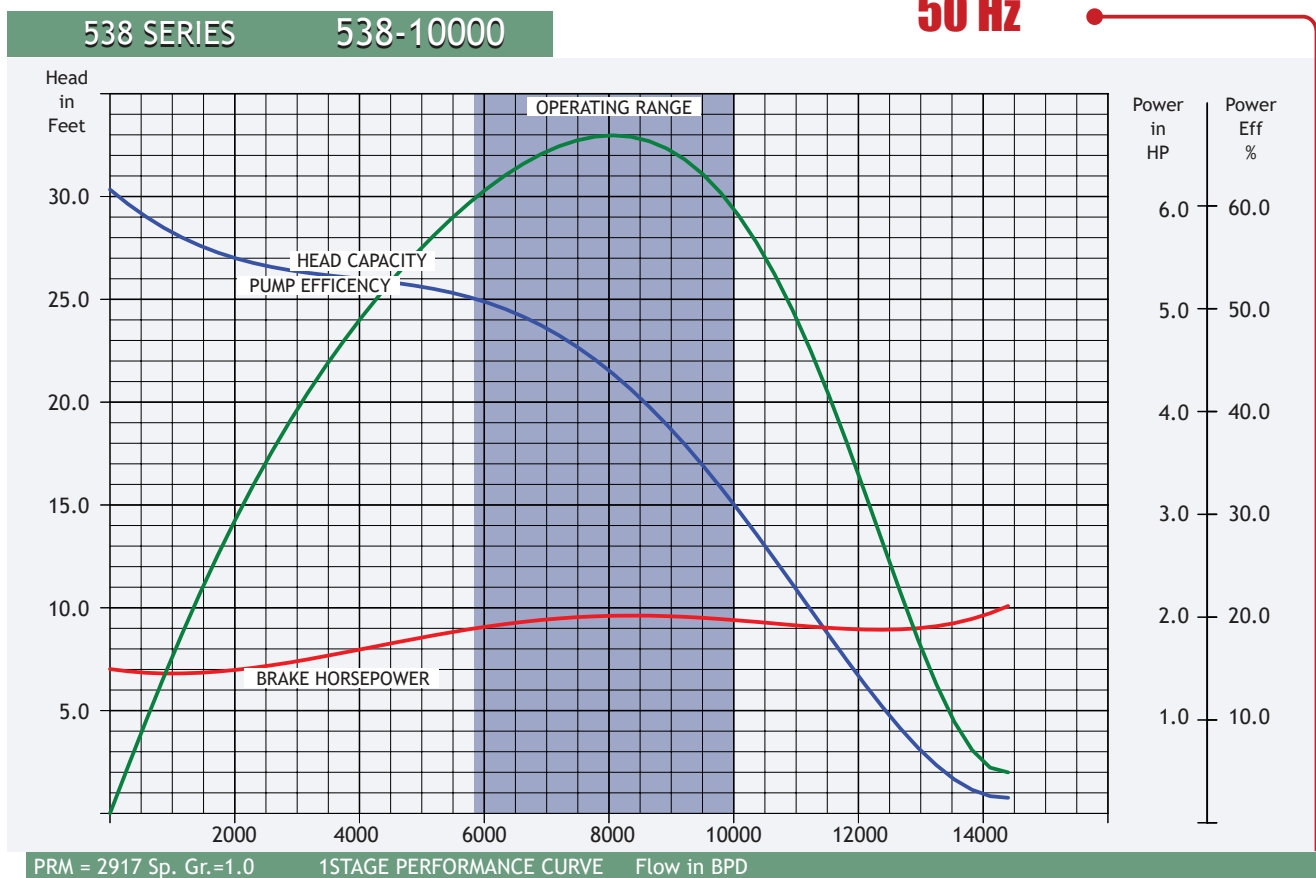
Length includes shipping caps

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	23
STANDARD BOLTO ON INTAKE *	1.2	50
STANDARD GAS SEPARATOR TYPE **	4.0	130
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

538 SERIES MOTOR



538 SERIES MOTOR



562-12000

562 Series

5.62 In (142.7 mm OD)

562-12000			
HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.2	146	2
2	3.7	213	6
3	5.2	282	11
4	6.7	350	15
5	8.2	418	19
6	9.7	486	23
7	11.2	554	27
8	12.7	622	32
9	14.2	690	36
10	15.7	758	40
11	17.2	826	44
12	18.7	894	48
13	20.2	962	52
14	21.7	1030	57
15	23.2	1093	61

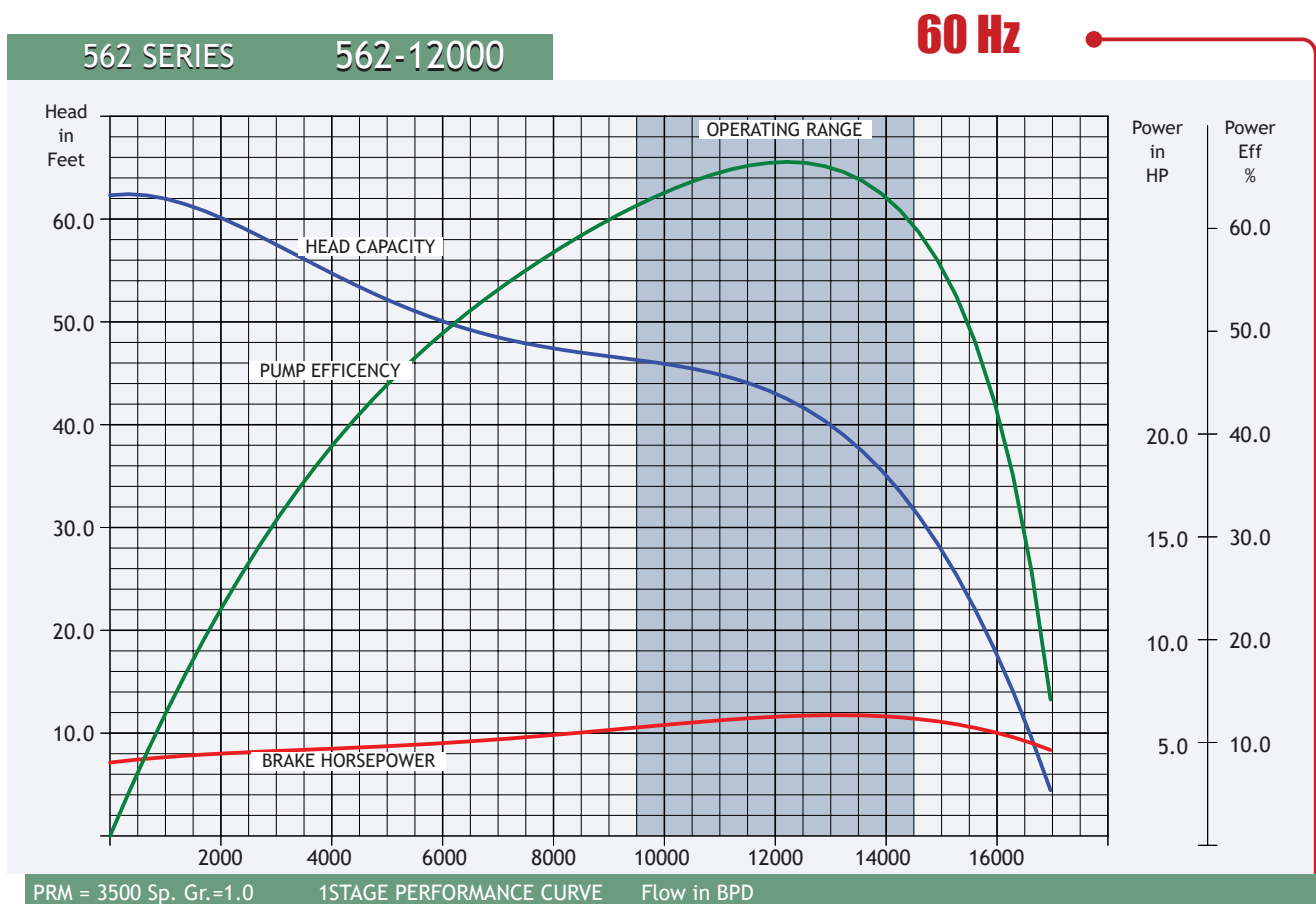
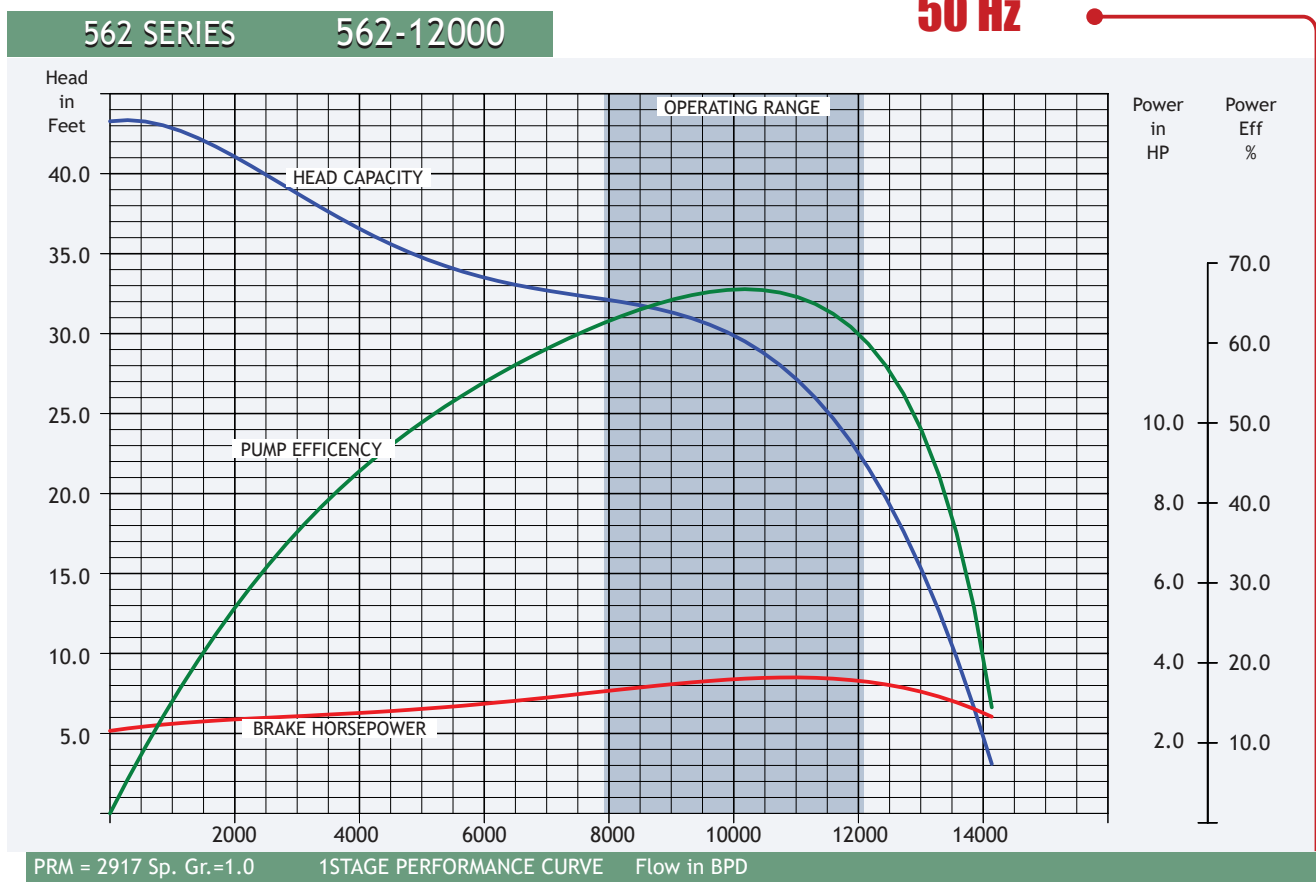
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	25
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

562 SERIES PUMP



562-12000



562 Series

5.62 In (142.7 mm OD)

562-16000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.2	146	2
2	3.7	213	6
3	5.2	282	9
4	6.7	350	13
5	8.2	418	16
6	9.7	486	20
7	11.2	554	23
8	12.7	622	27
9	14.2	690	31
10	15.7	758	34
11	17.2	826	38
12	18.7	894	42
13	20.2	962	45
14	21.7	1030	49
15	23.2	1093	52

For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	25
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

562-16000

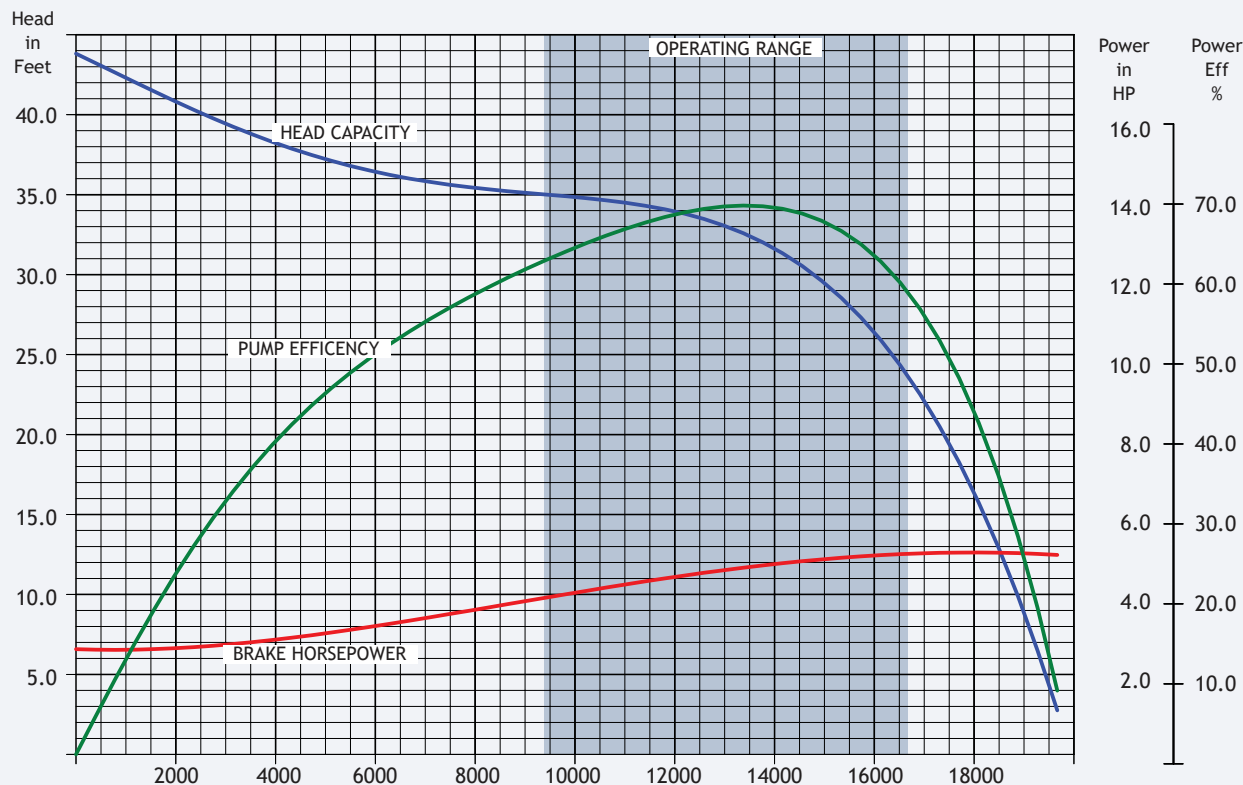
562 SERIES PUMP



562-16000

562 SERIES 562-16000

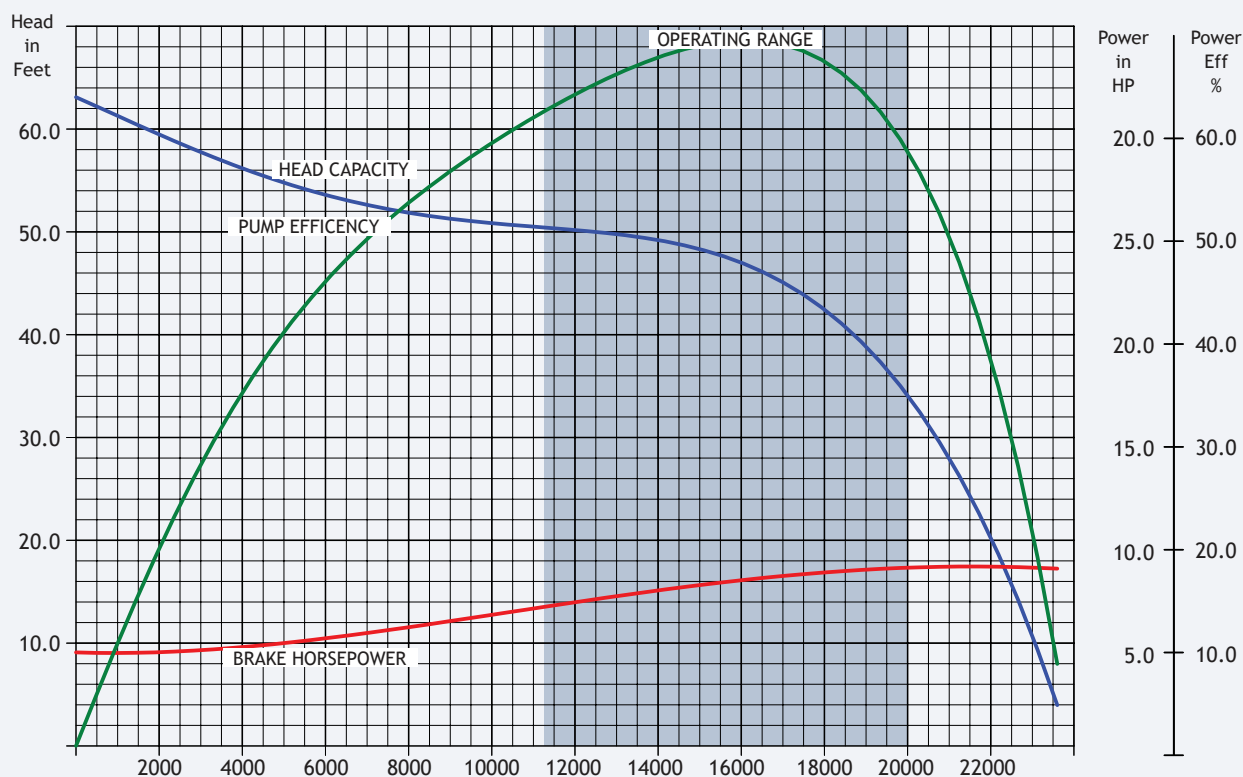
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

562 SERIES 562-16000

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

562 Series

5.62 In (142.7 mm OD)

562-20000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.2	146	2
2	3.7	213	6
3	5.2	282	9
4	6.7	350	12
5	8.2	418	15
6	9.7	486	19
7	11.2	554	22
8	12.7	622	26
9	14.2	690	29
10	15.7	758	32
11	17.2	826	36
12	18.7	894	39
13	20.2	962	43
14	21.7	1030	46
15	23.2	1093	49

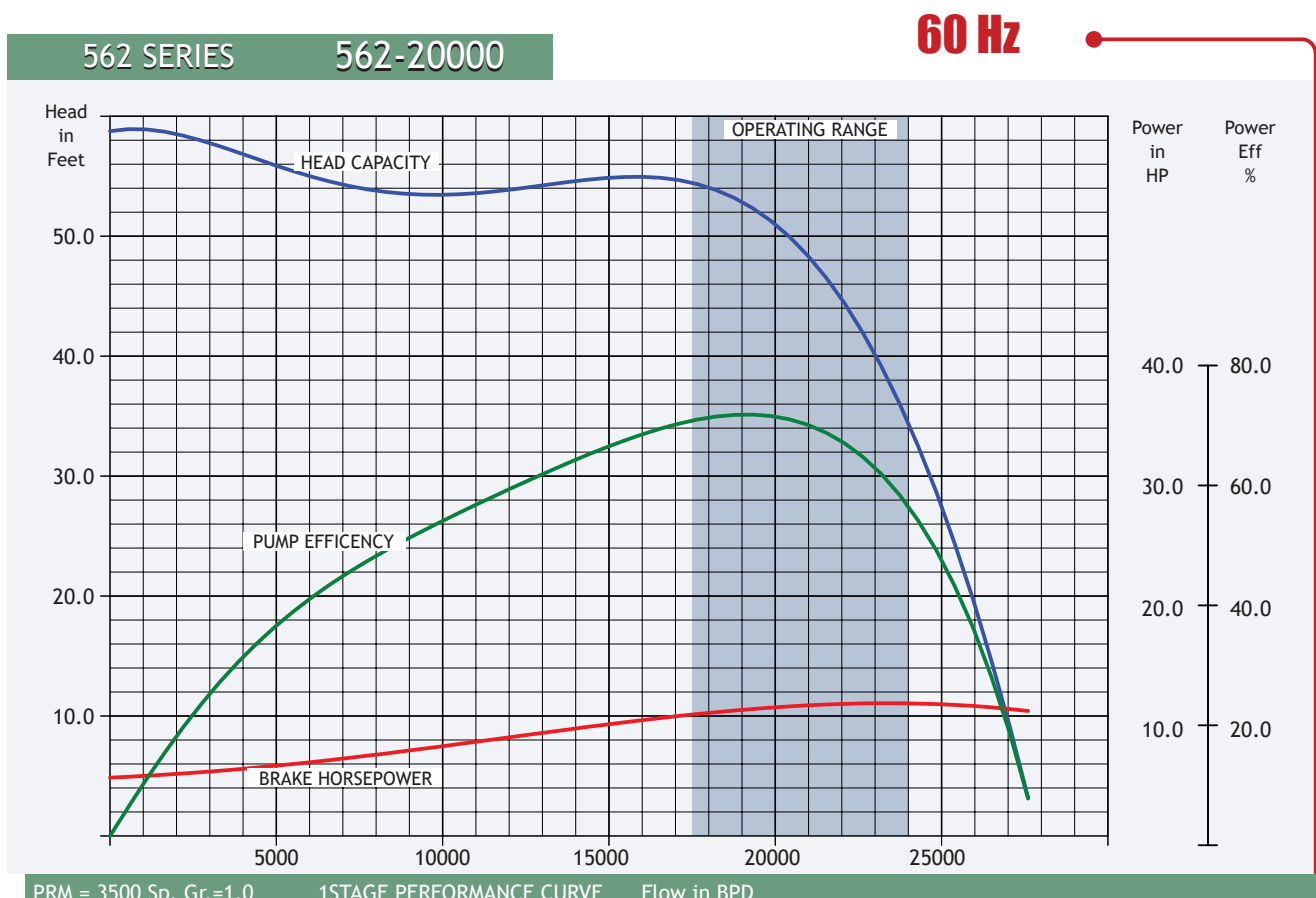
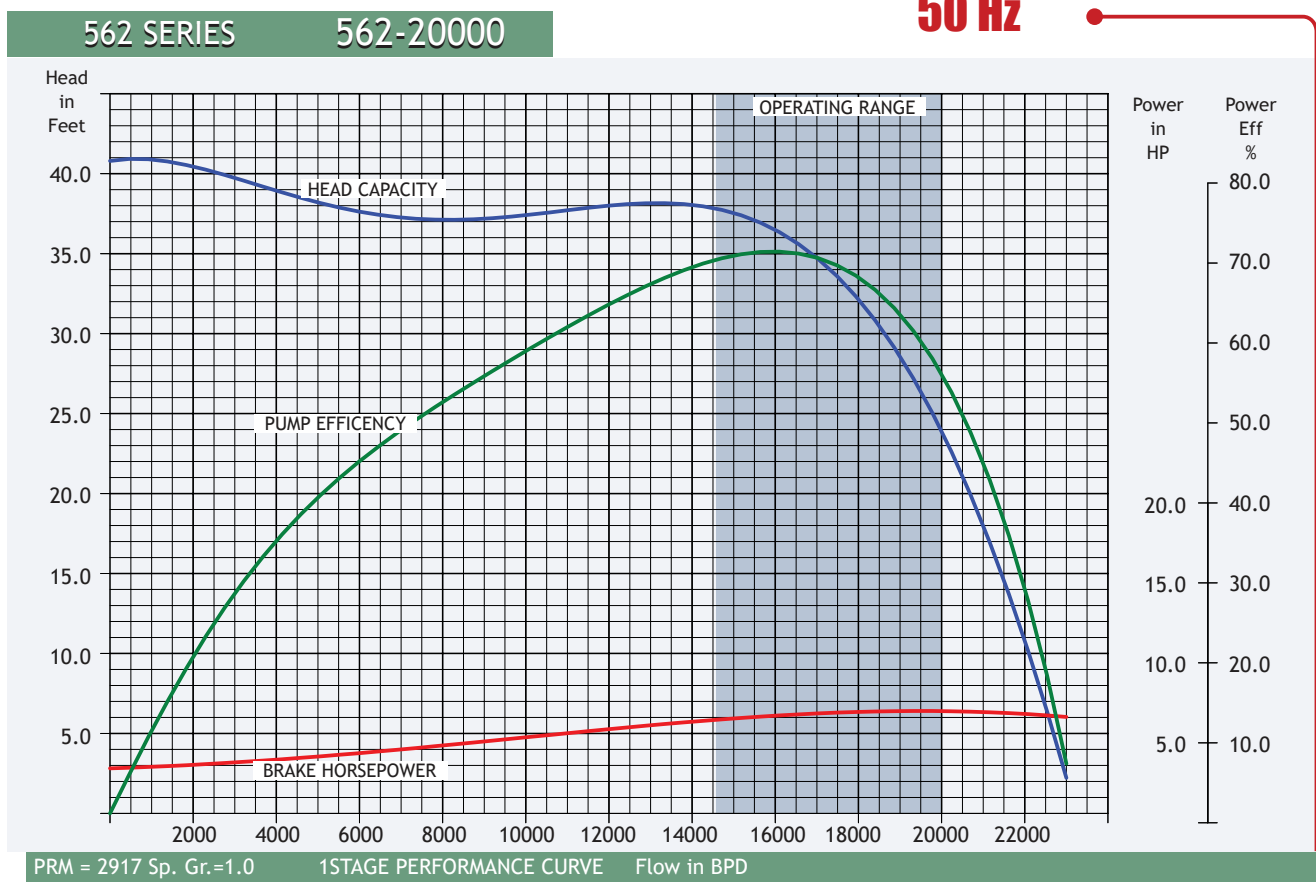
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 3 1/2 IN. OD 8RD EUE	0.8	25
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE
MAX EFFECTIVE FLOW RATE FOR GS 7000 BPD		MINIMUM FLOW RATE 1000 BPD

562 SERIES PUMP



562-20000



675 Series

6.75 In (171.5 mm OD)

675-7000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.6	195	3
2	4.1	280	6
3	5.6	380	10
4	7.1	480	14
5	8.6	565	17
6	10.1	665	21
7	11.6	750	24
8	13.1	850	28
9	14.6	950	32
10	16.1	1035	35
11	17.6	1135	39
12	19.1	1220	42
13	20.6	1320	46
14	22.1	1420	50
15	23.6	1505	53

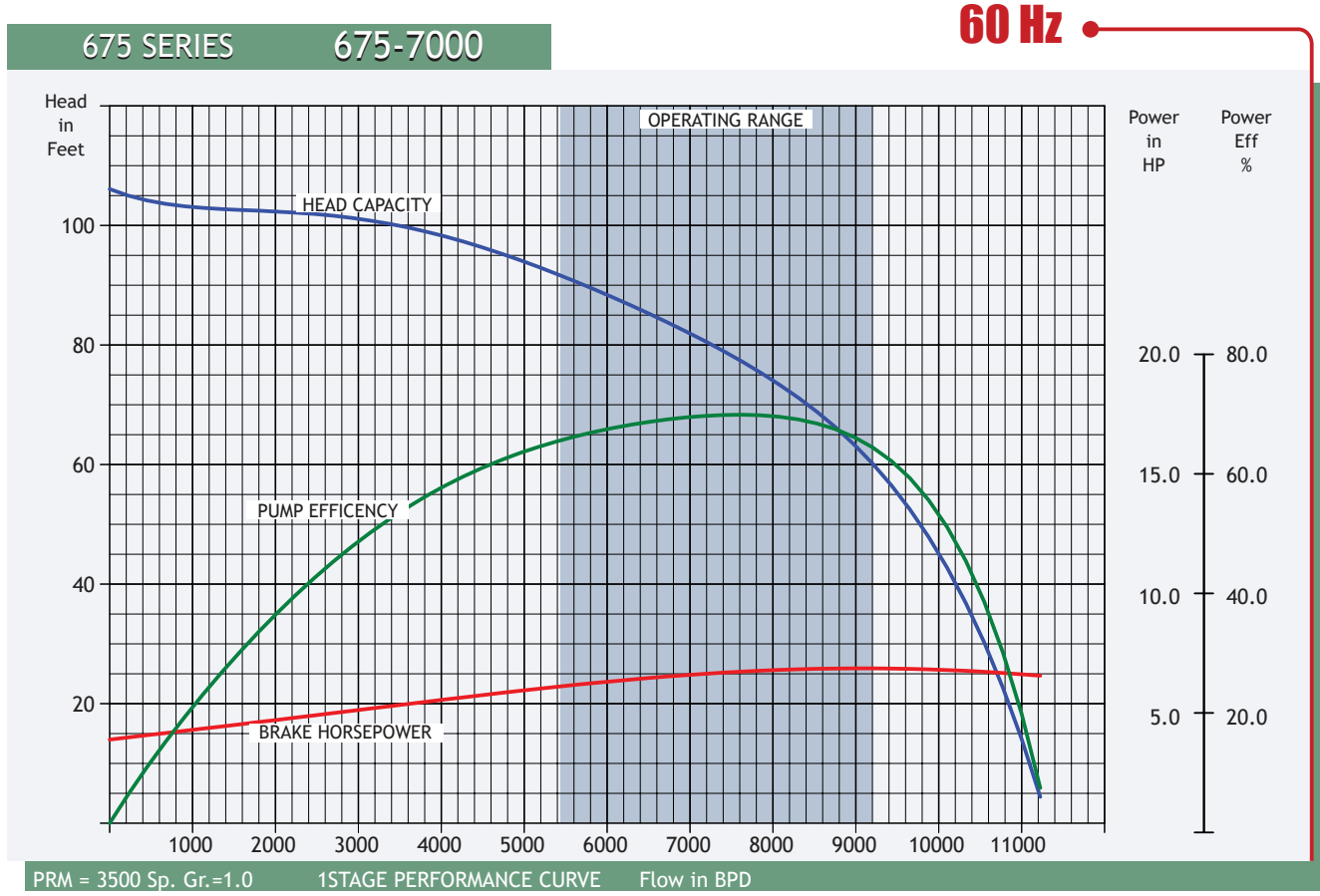
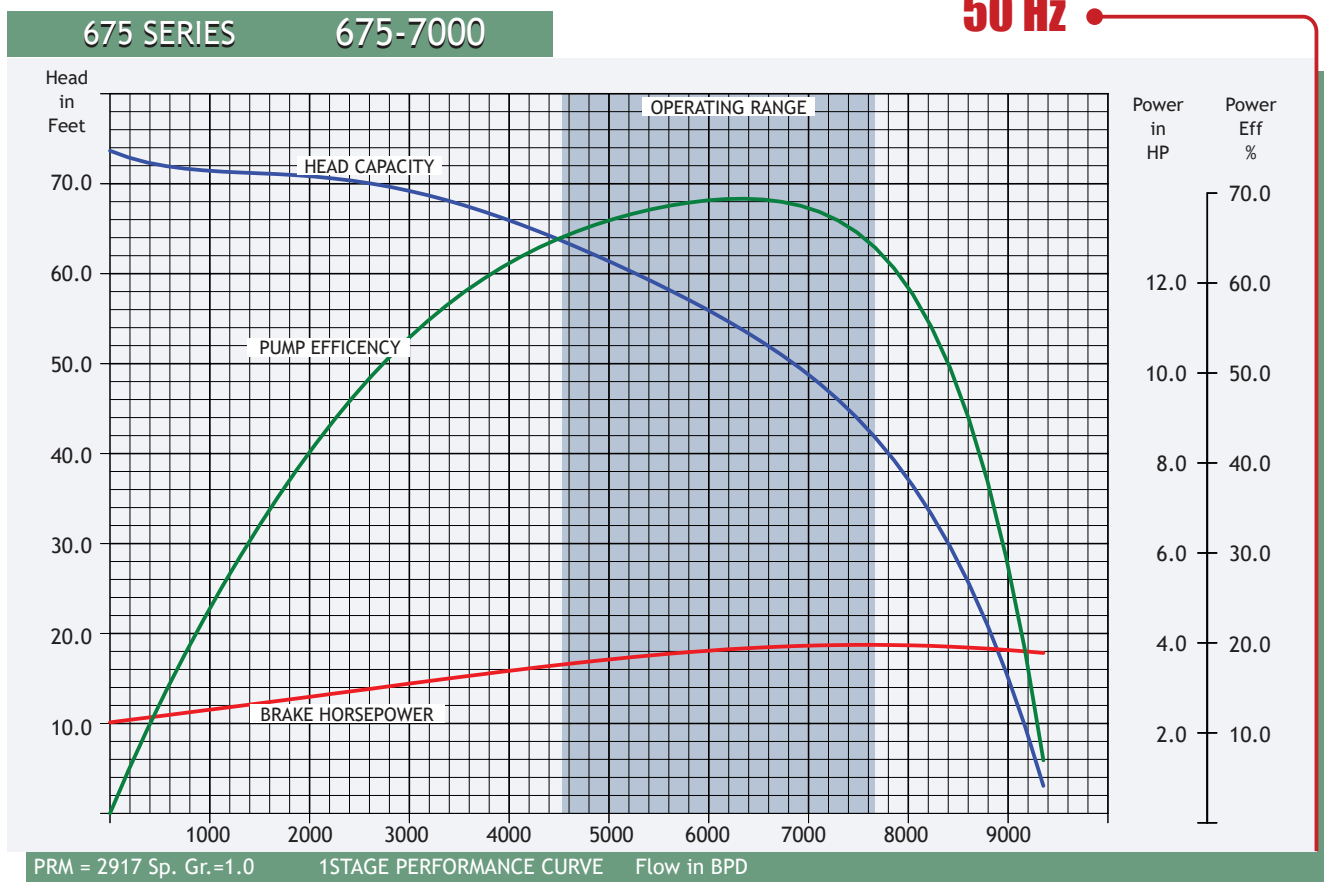
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 5 1/2 IN. OD 8RD EUE	0.73	31
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE

675 SERIES PUMP



675-7000



675 Series 6.75 In (171.5 mm OD)

675-9000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.6	195	3
2	4.1	280	6
3	5.6	380	10
4	7.1	480	14
5	8.6	565	17
6	10.1	665	21
7	11.6	750	24
8	13.1	850	28
9	14.6	950	32
10	16.1	1035	35
11	17.6	1135	39
12	19.1	1220	42
13	20.6	1320	46
14	22.1	1420	50
15	23.6	1505	53

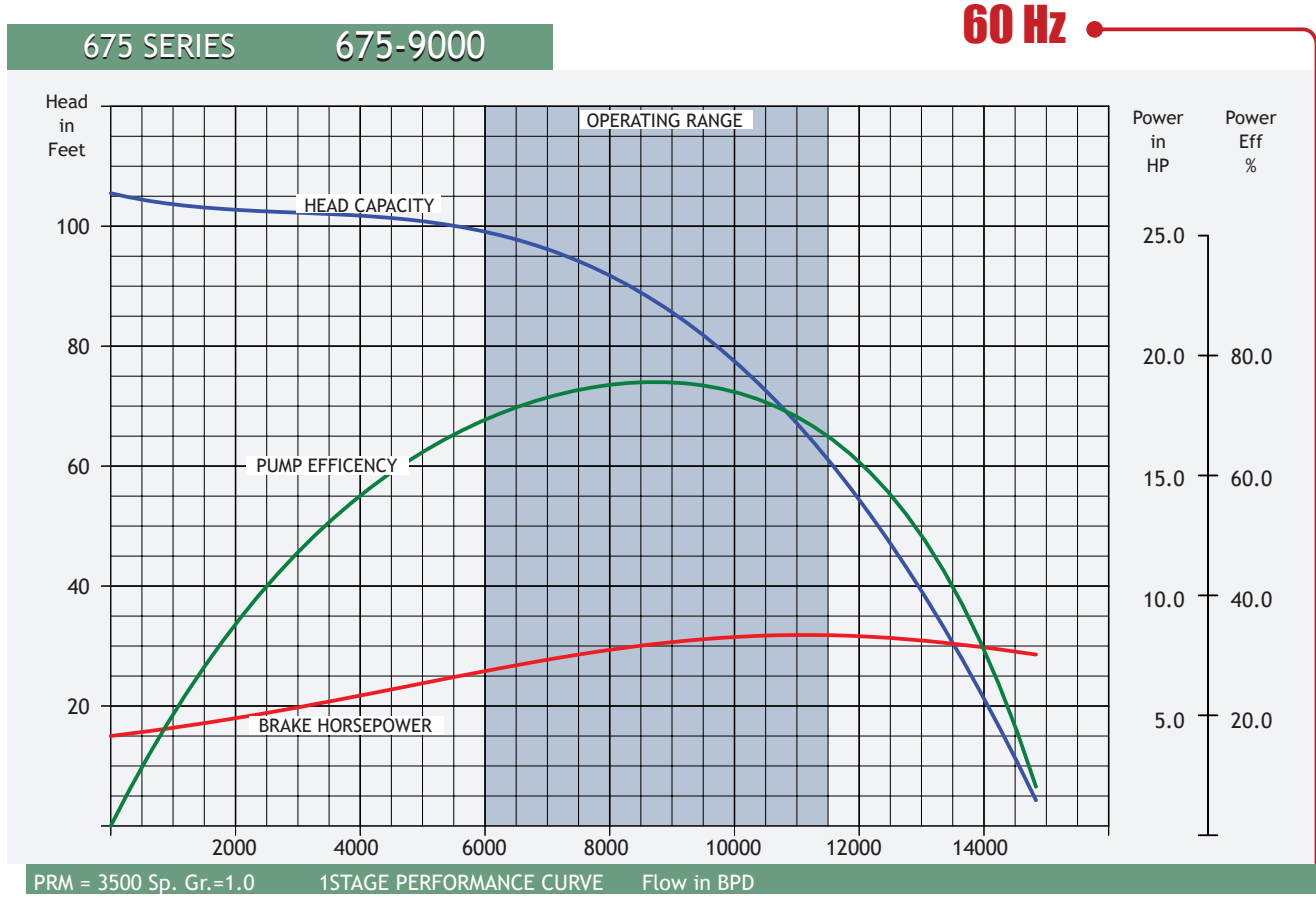
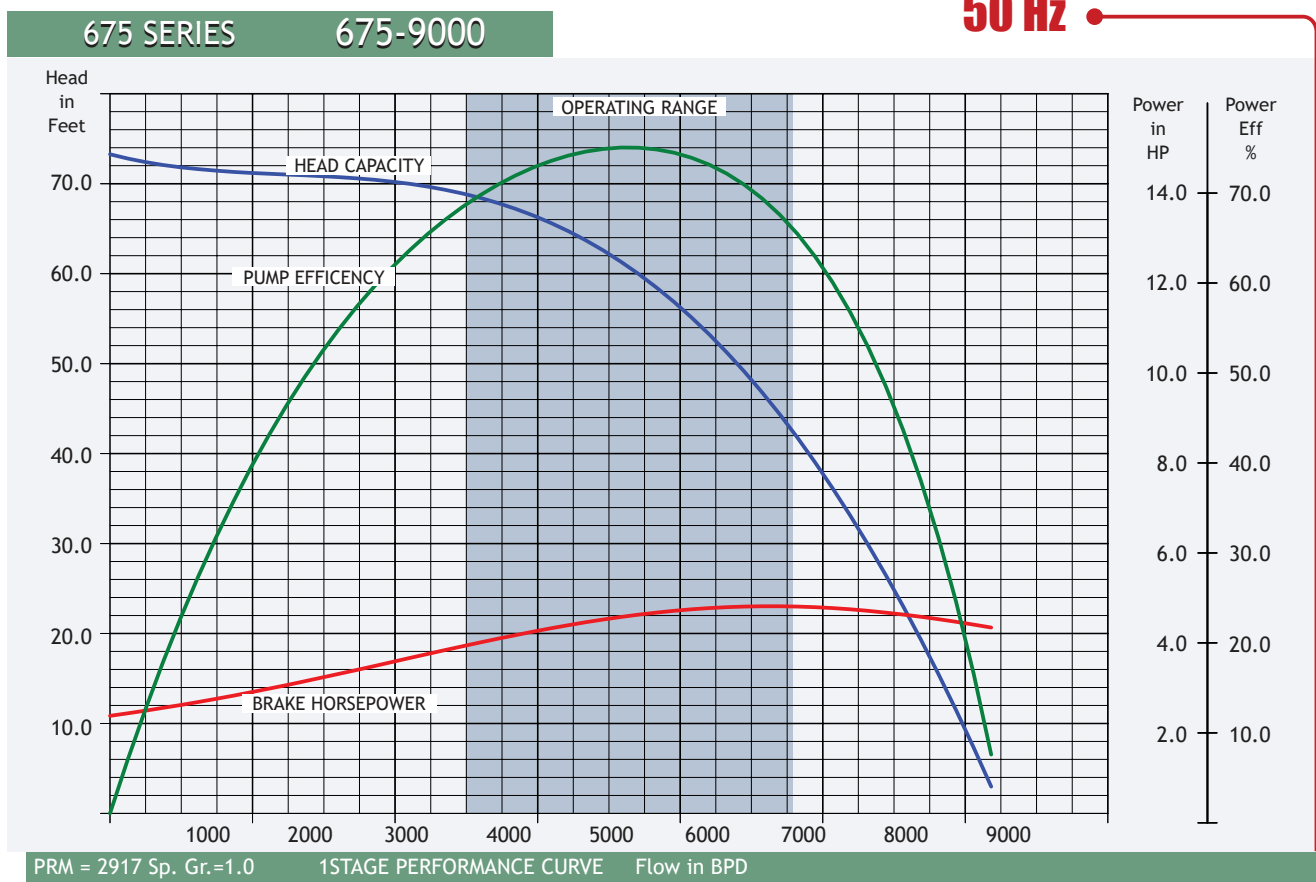
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 5 1/2 IN. OD 8RD EUE	0.73	31
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE

675 SERIES PUMP



675-9000



675 Series 6.75 In (171.5 mm OD)

675-12500

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.6	195	3
2	4.1	355	6
3	5.6	380	9
4	7.1	480	12
5	8.6	565	16
6	10.1	665	19
7	11.6	770	22
8	13.1	865	26
9	14.6	960	29
10	16.1	1050	32
11	17.6	1135	36
12	19.1	1235	39
13	20.6	1320	42
14	22.1	1420	45
15	23.6	1505	48

For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 5 1/2 IN. OD 8RD EUE	0.73	31
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE

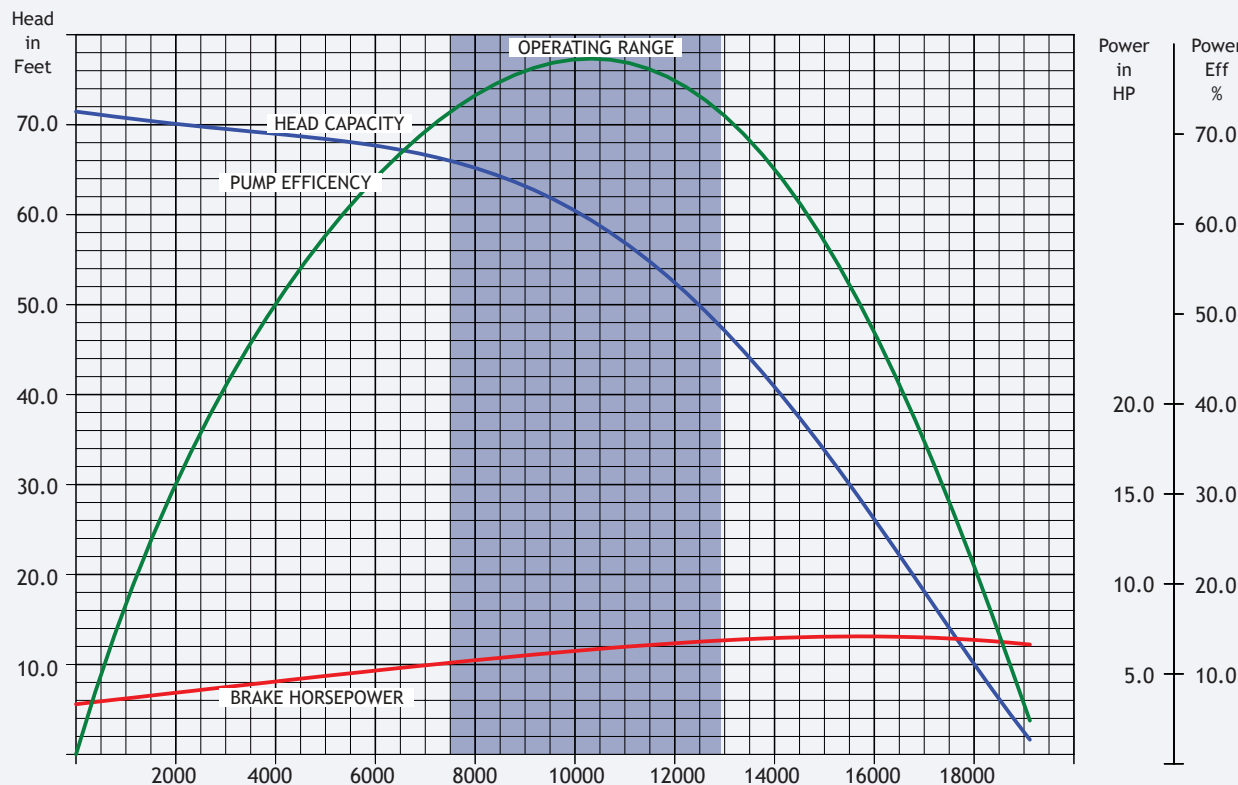
675 SERIES PUMP



675-12500

675 SERIES 675-12500

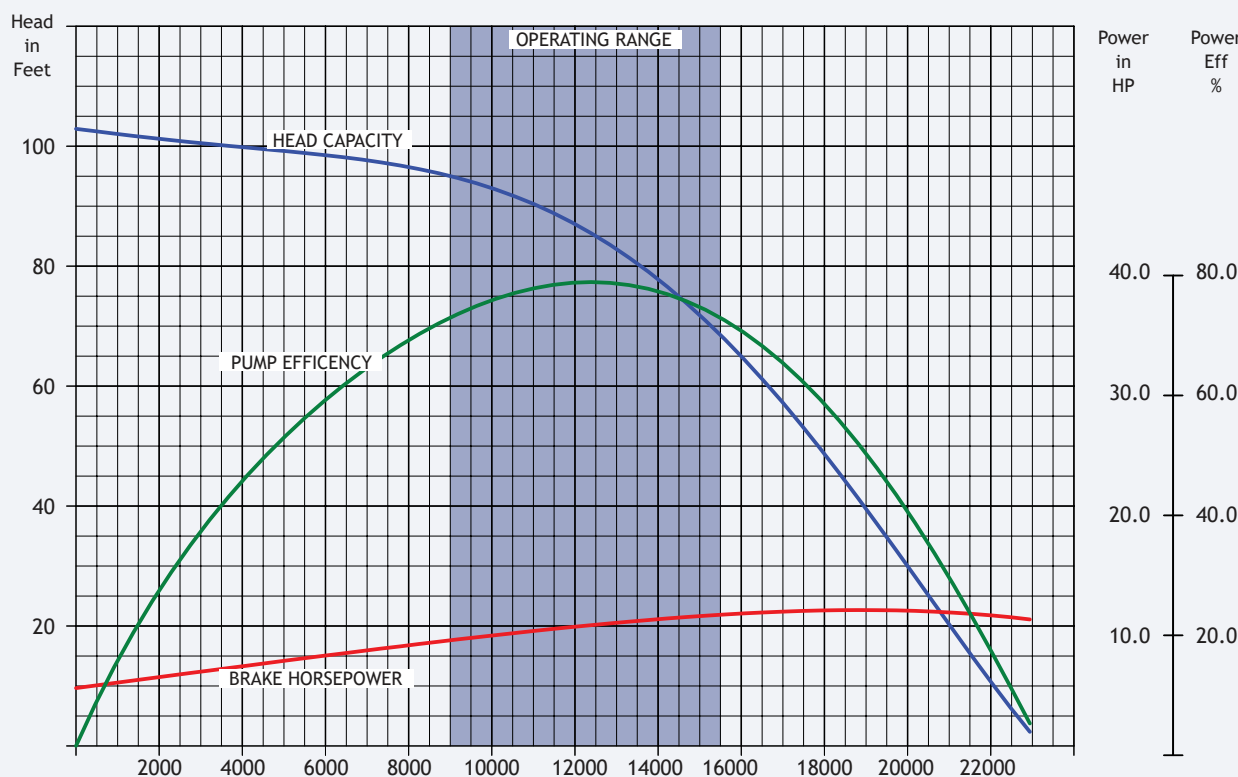
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

675 SERIES 675-12500

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

675 Series

6.75 In (171.5 mm OD)

675-19000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.6	180	2
2	4.1	265	5
3	5.6	350	8
4	7.1	435	11
5	8.6	520	14
6	10.1	605	17
7	11.6	690	20
8	13.1	775	23
9	14.6	860	26
10	16.1	945	29
11	17.6	1030	32
12	19.1	1115	35
13	20.6	1200	38
14	22.1	1285	41
15	23.6	1370	44

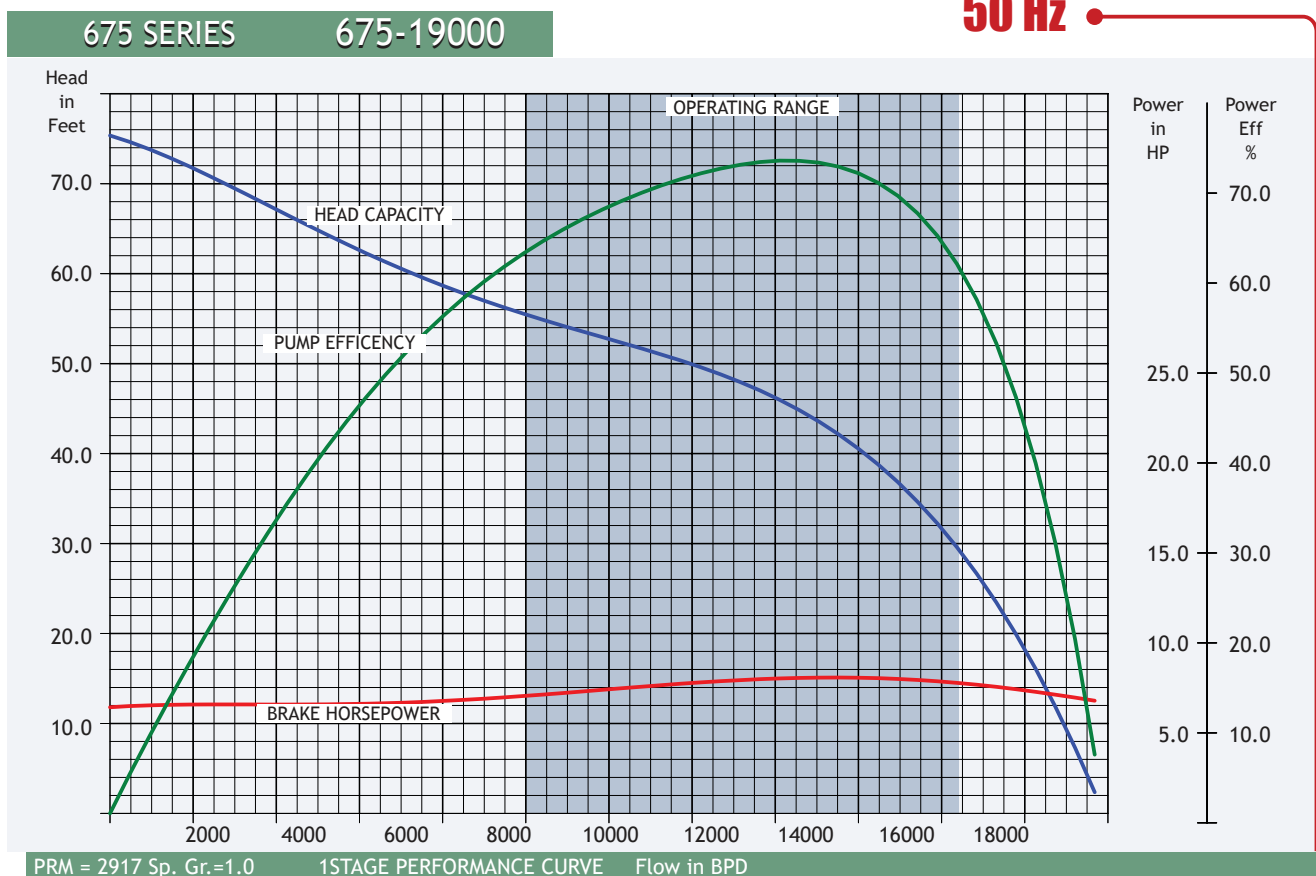
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 5 1/2 IN. OD 8RD EUE	0.73	31
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE

675 SERIES PUMP



675-19000



675 Series

6.75 In (171.5 mm OD)

675-27000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	2.6	180	2
2	4.1	265	5
3	5.6	350	7
4	7.1	435	10
5	8.6	520	13
6	10.1	605	16
7	11.6	690	18
8	13.1	775	21
9	14.6	860	24
10	16.1	945	27
11	17.6	1030	29
12	19.1	1115	32
13	20.6	1200	35
14	22.1	1285	38
15	23.6	1370	40

For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 5 1/2 IN. OD 8RD EUE	0.73	31
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE

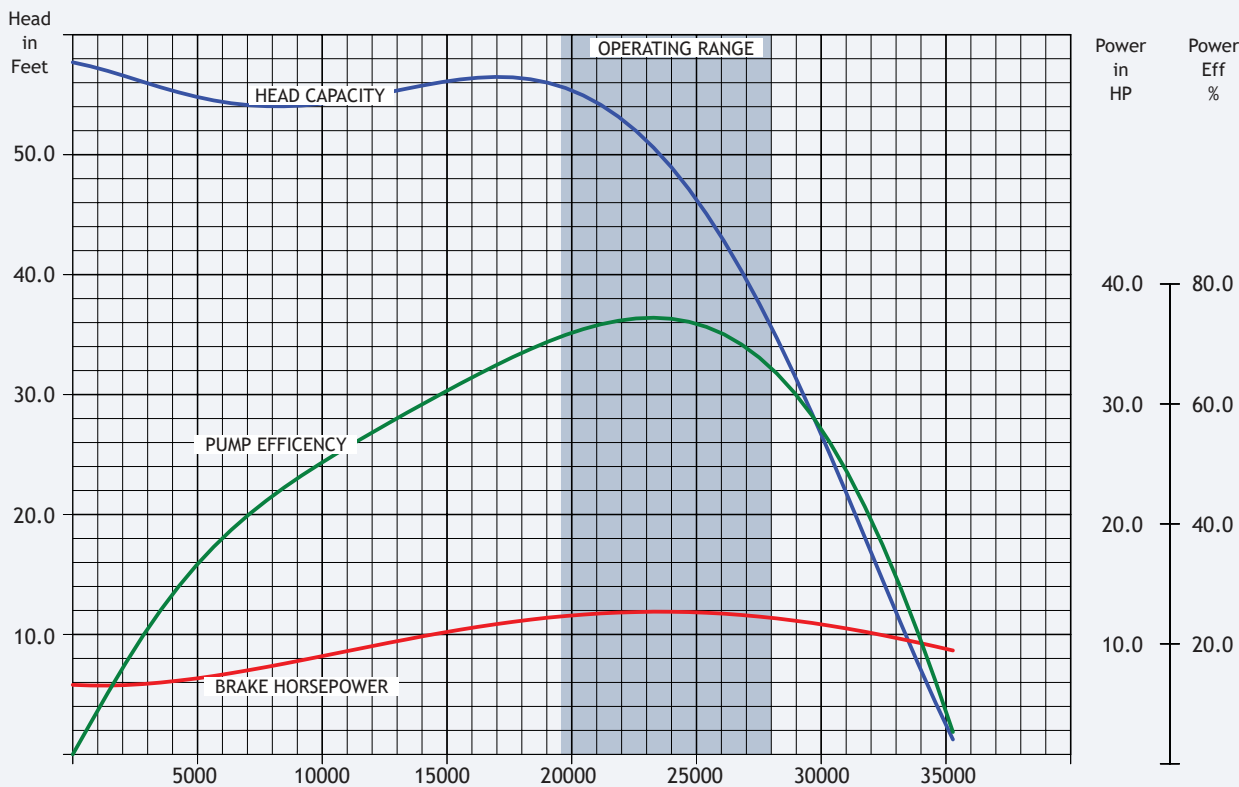
675 SERIES PUMP



675-27000

675 SERIES 675-27000

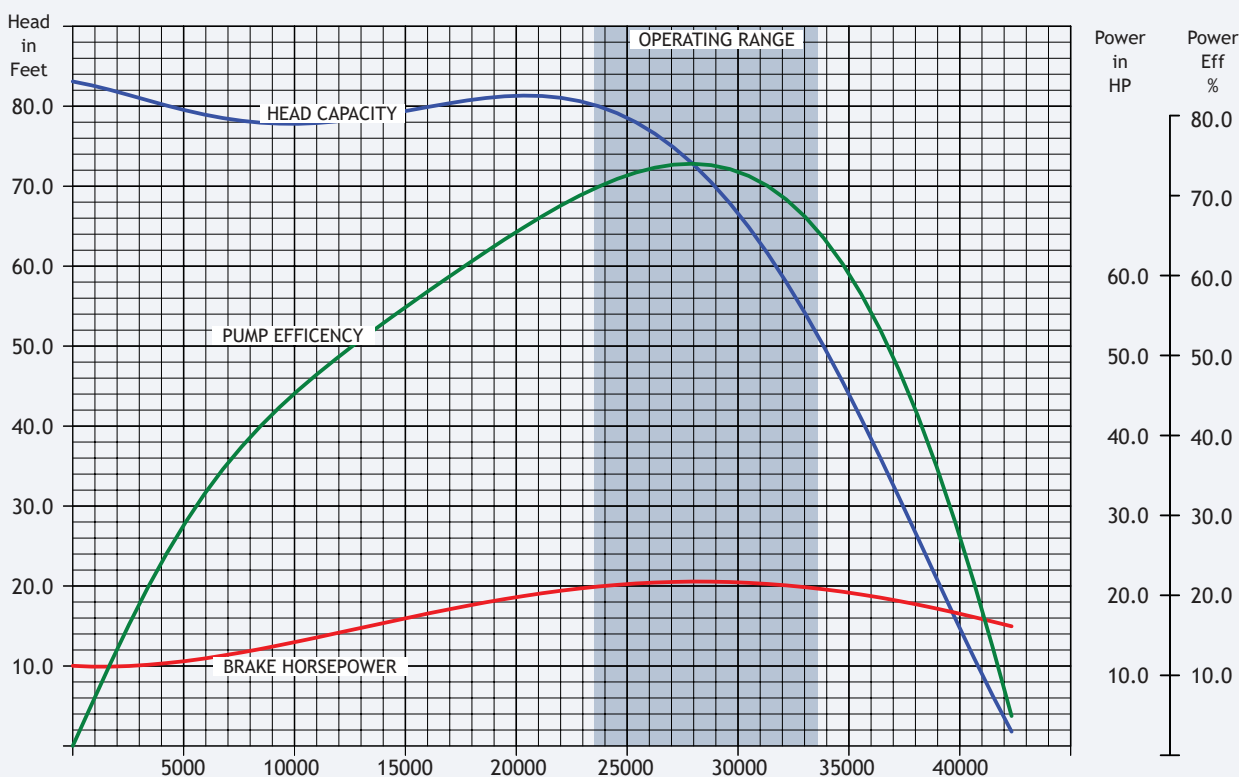
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

675 SERIES 675-27000

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

675 Series 6.75 In (171.5 mm OD)

675-35000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	3.6	180	2
2	5.1	265	5
3	6.6	350	7
4	8.1	435	10
5	9.6	520	13
6	11.1	605	16
7	12.6	690	18
8	14.1	775	21
9	15.6	860	24
10	17.1	945	27
11	18.6	1030	29
12	20.1	1115	32

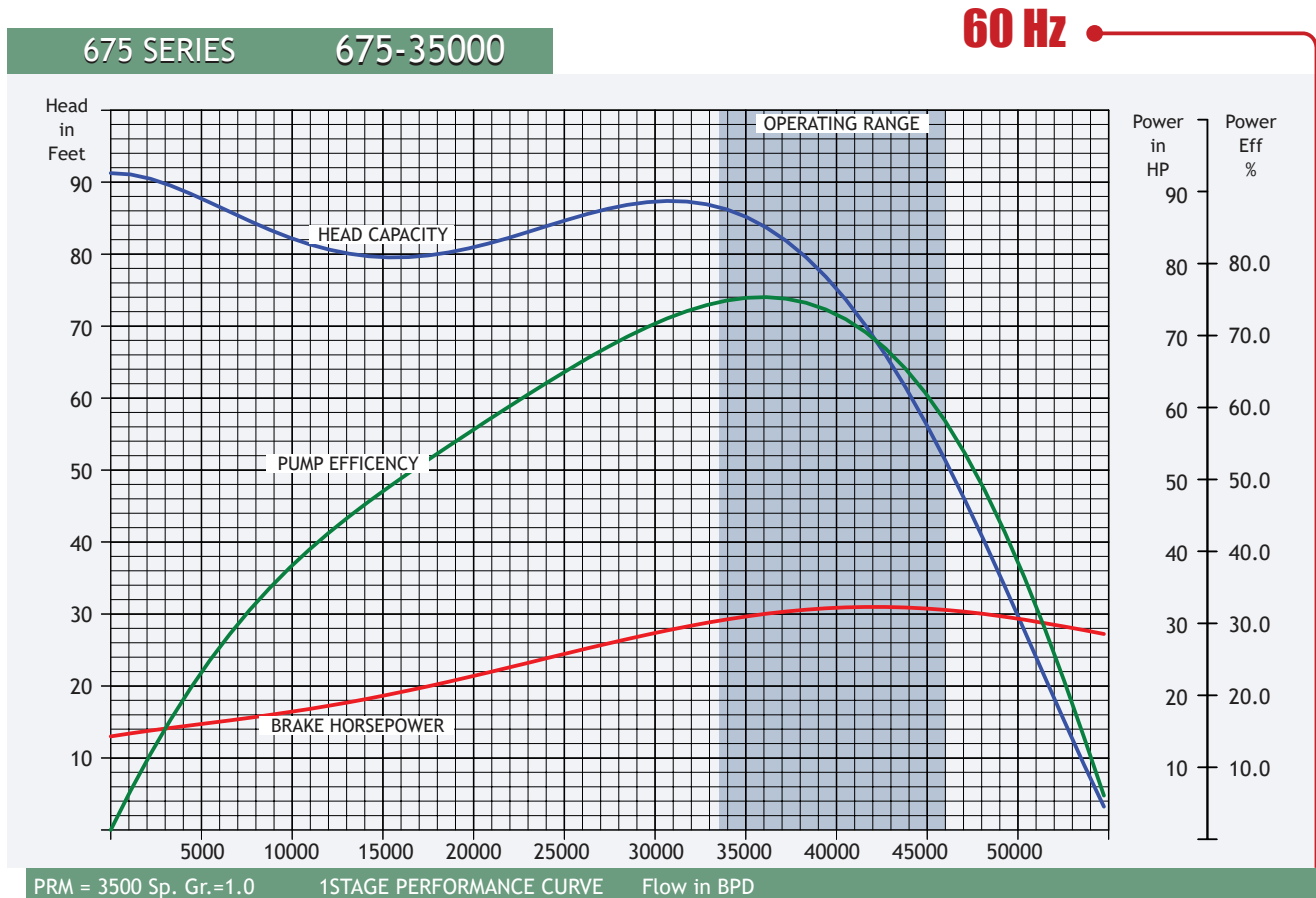
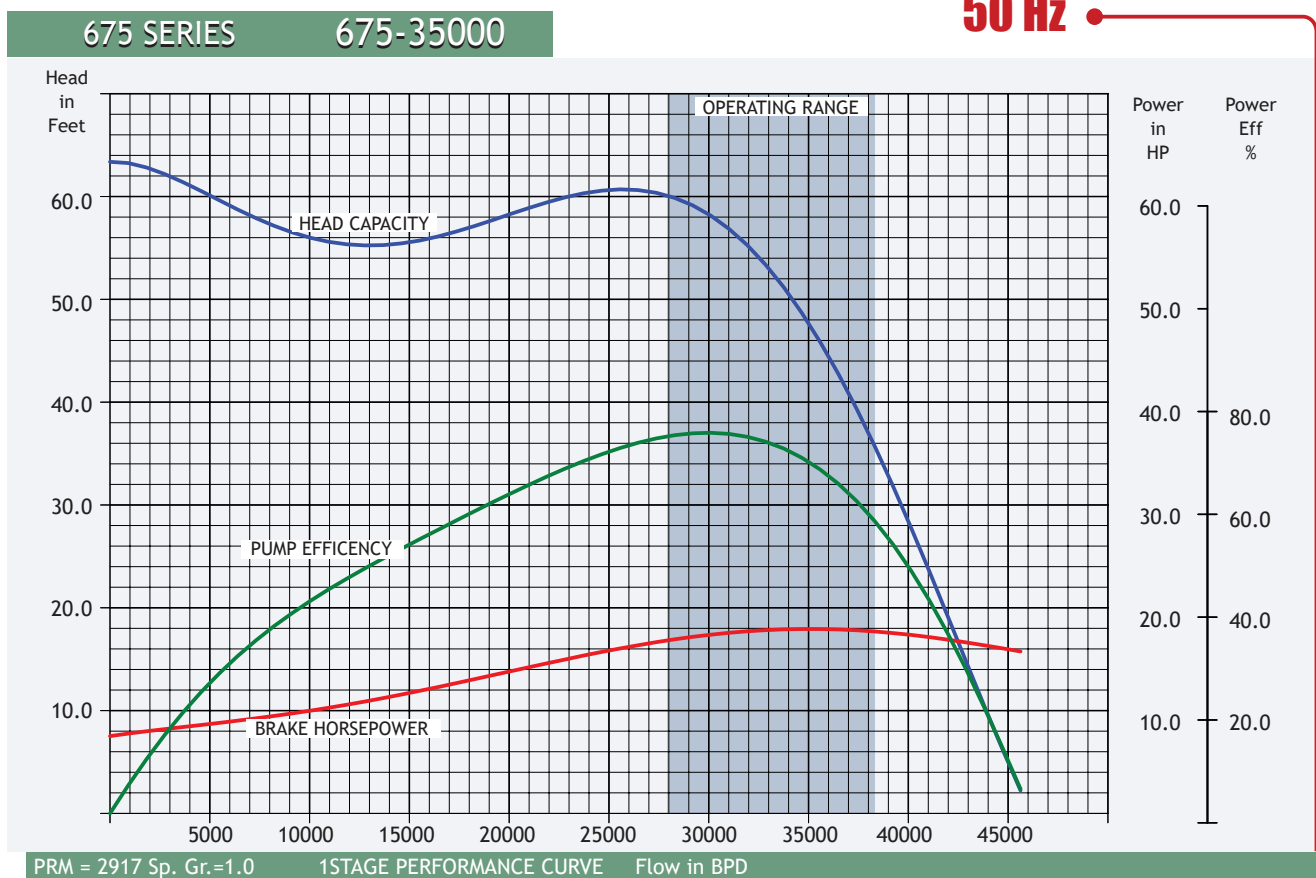
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD 5 1/2 IN. OD 8RD EUE	0.73	31
STANDARD BOLTO ON INTAKE *	0.7	47
STANDARD GAS SEPARATOR TYPE **	6.0	250
* CARBON STEEL		** 1.187 SHAFT SIZE

675 SERIES PUMP



675-35000



875 Series 8.75 In (222.3 mm OD)

875-21000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	3.9	282-302	1-2
2	5.2	307-417	3-4
3	6.5	538-557	5-6
4	7.9	668-688	7-8
5	9.2	796-816	9-10
6	10.5	924-944	11-12
7	11.9	1052-1071	13-14
8	13.2	1177-1197	15-16
9	14.5	1310-1329	17-18
10	15.9	1440-1457	19-20
11	17.2	1601-1620	21-22
12	18.5	1731-1750	23-24
13T	22.4	1858-1878	25-26
14T	23.8	1986-2006	27-28
15T	25.1	2114-2134	29-30
16T	26.4	2242-2264	31-32
17T	27.8	2373-2392	33-34
18T	29.1	2503-2523	35-36

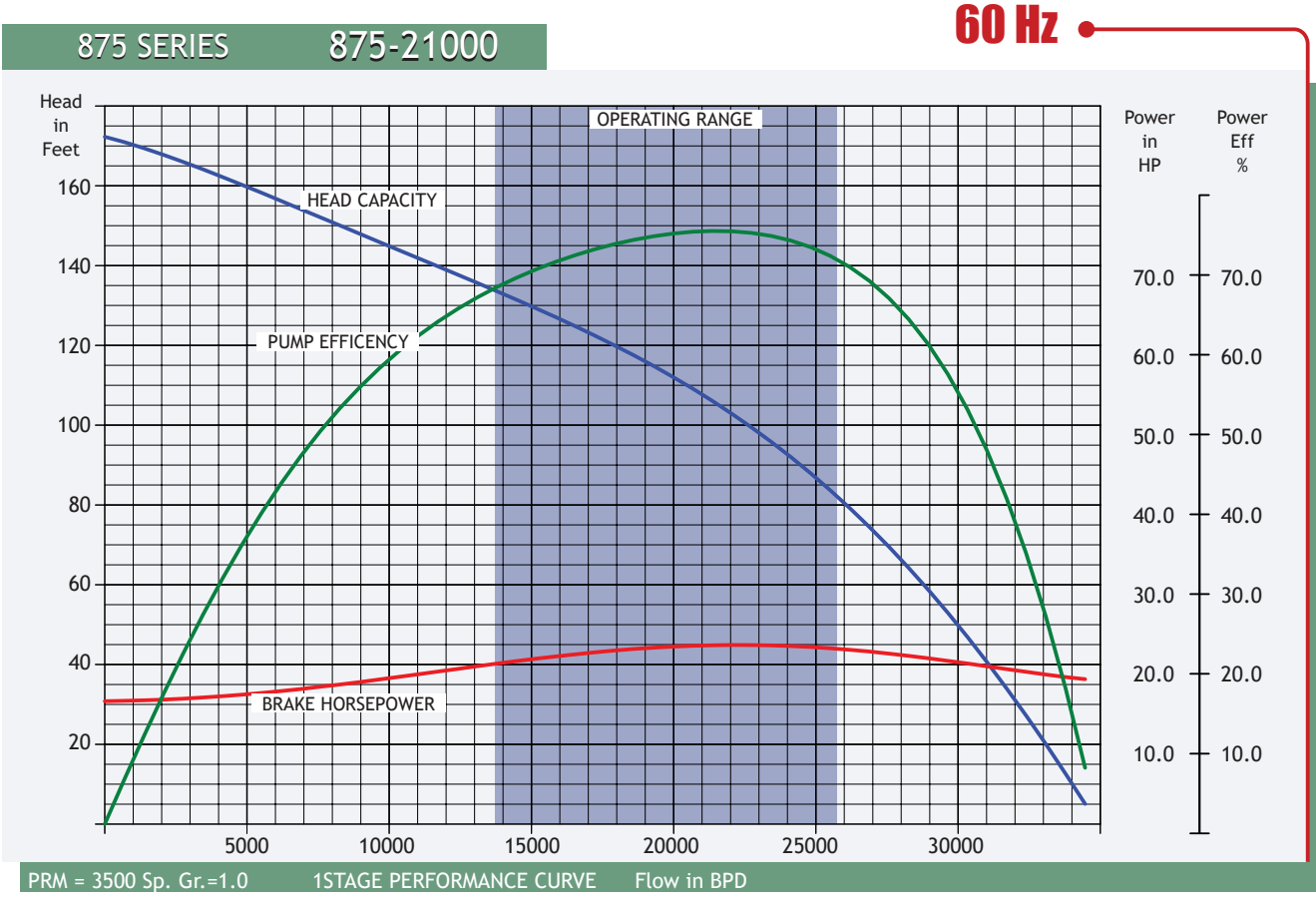
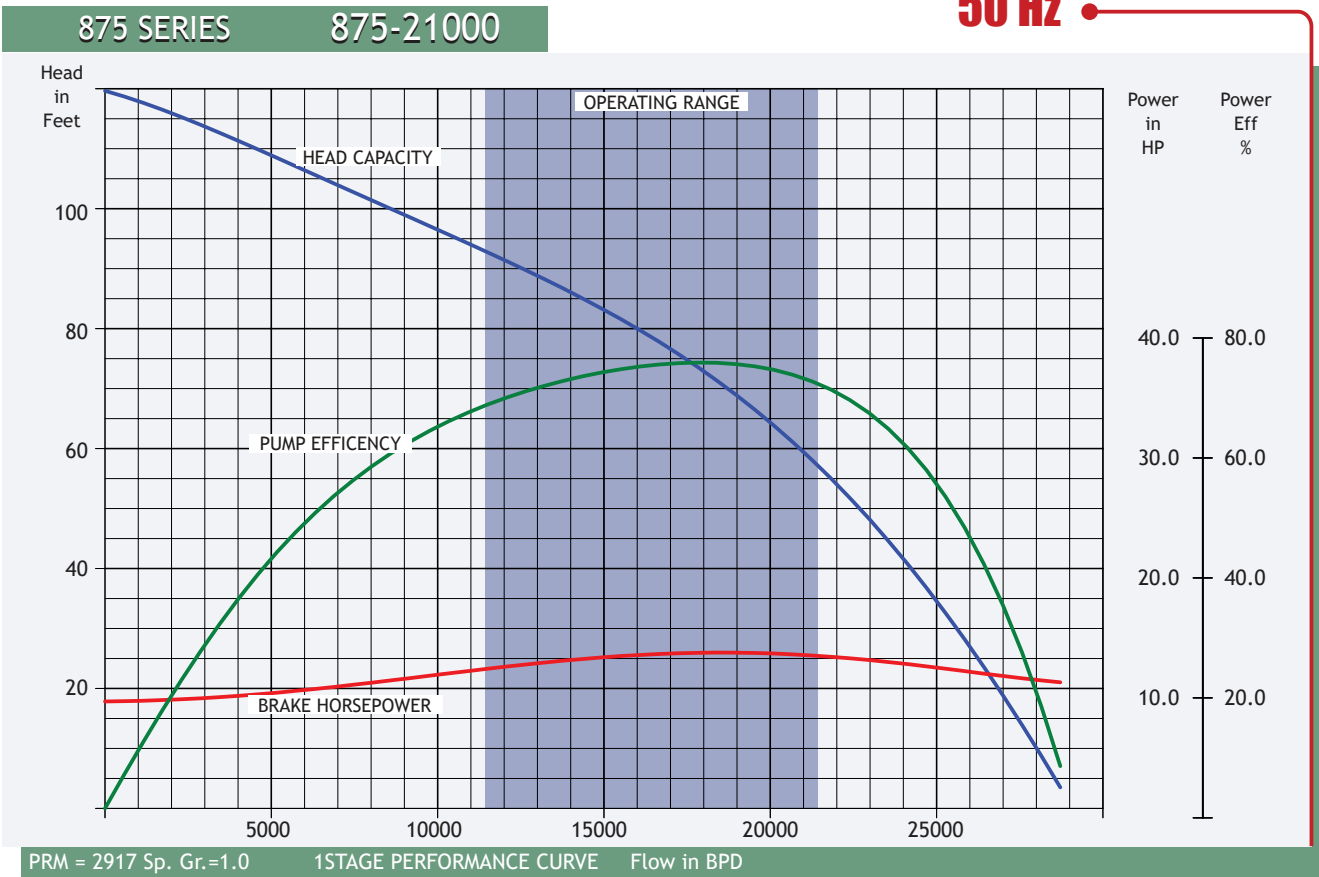
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD		Ask from Representative
STANDARD BOLTO ON INTAKE		Ask from Representative
STANDARD GAS SEPARATOR TYPE		Ask from Representative
CARBON STEEL		

875 SERIES PUMP



875-21000



875 Series
8.75 In (222.3 mm OD)

875-24000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	3.9	282-302	1-2
2	5.2	307-417	3-4
3	6.5	538-557	5-6
4	7.9	668-688	7-8
5	9.2	796-816	9-10
6	10.5	924-944	11-12
7	11.9	1052-1071	13-14
8	13.2	1177-1197	15-16
9	14.5	1310-1329	17-18
10	15.9	1440-1457	19-20
11	17.2	1601-1620	21-22
12	18.5	1731-1750	23-24
13T	22.4	1858-1878	25-26
14T	23.8	1986-2006	27-28
15T	25.1	2114-2134	29-30
16T	26.4	2242-2264	31-32
17T	27.8	2373-2392	33-34
18T	29.1	2503-2523	35-36

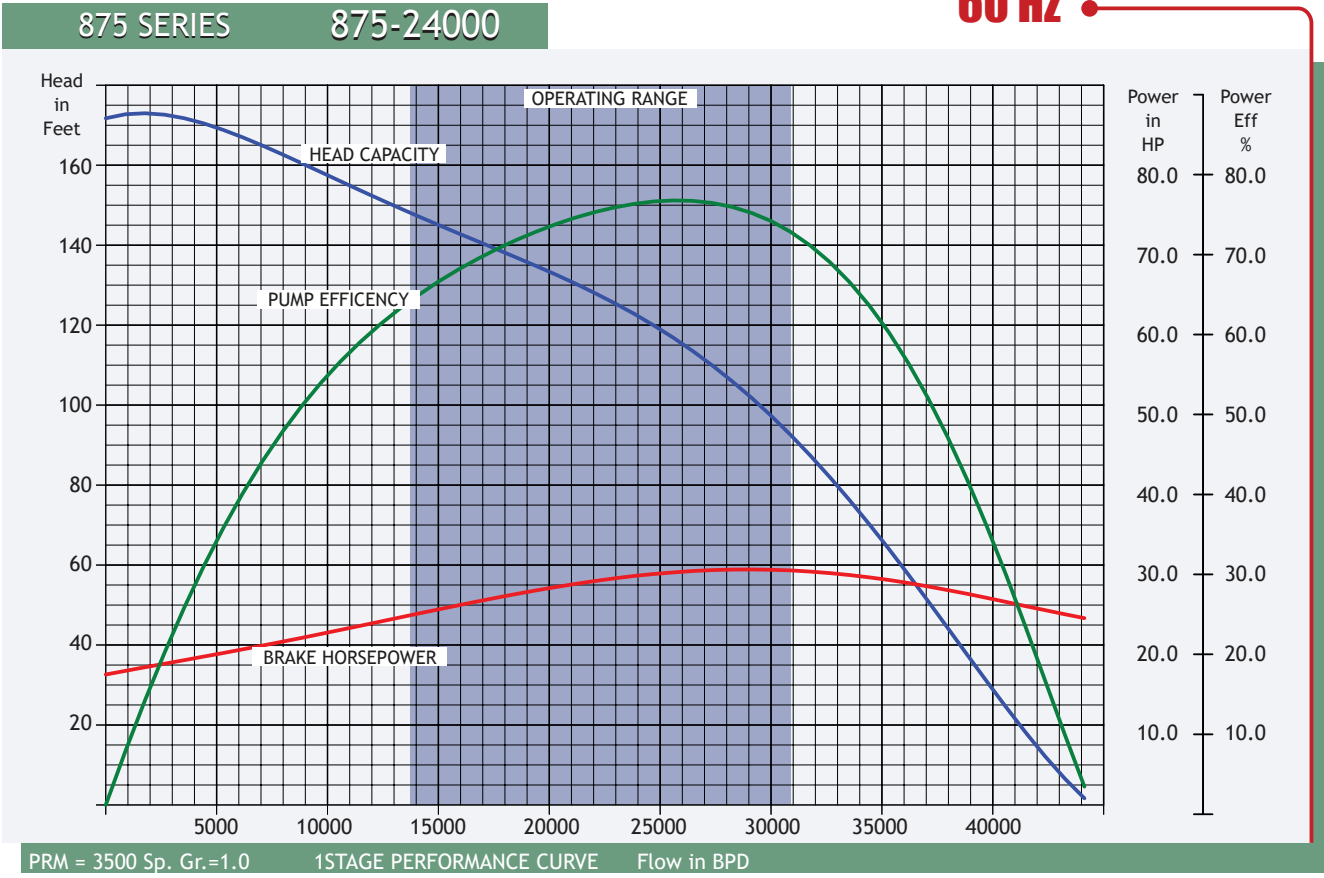
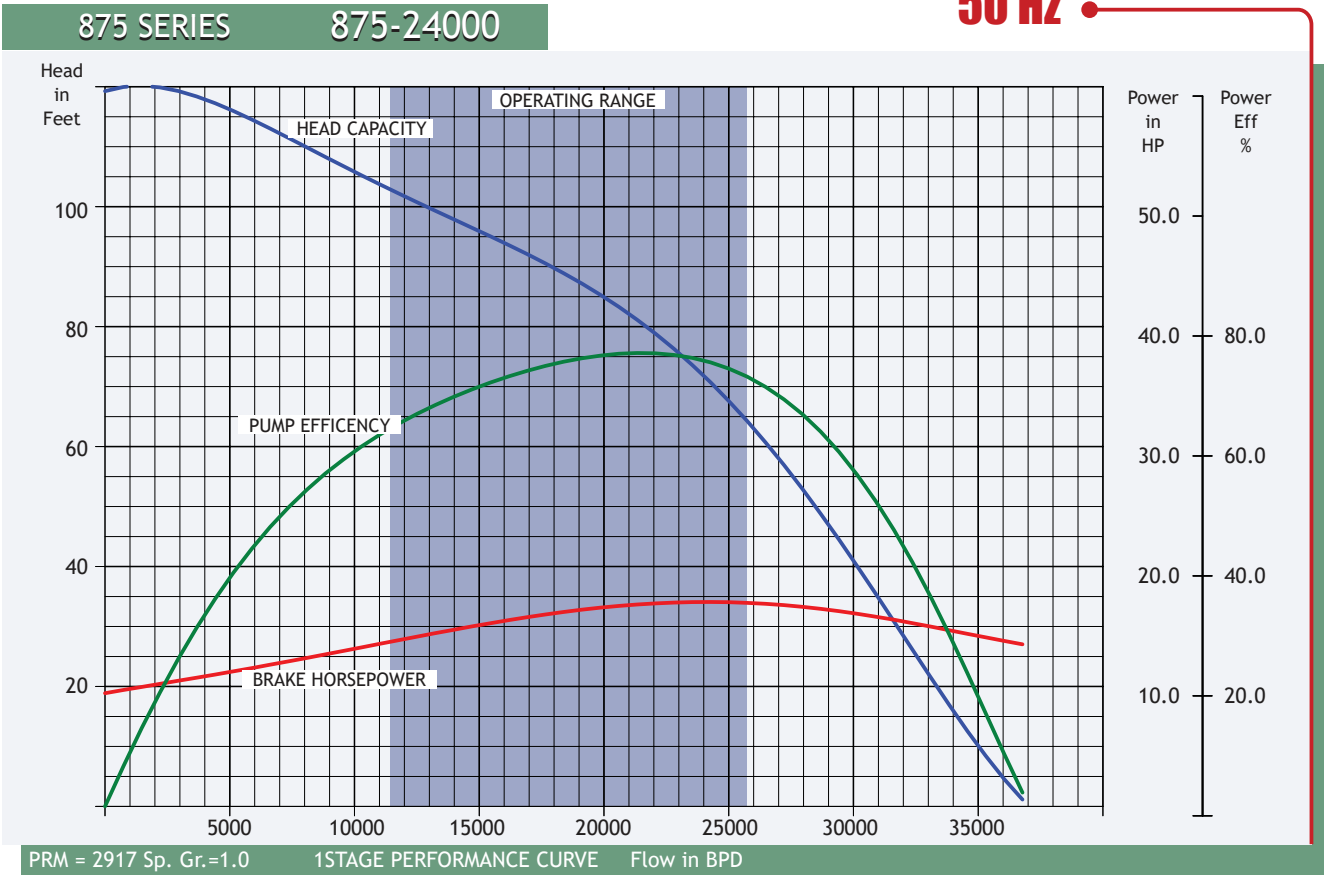
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD		Ask from Representative
STANDARD BOLTO ON INTAKE		Ask from Representative
STANDARD GAS SEPARATOR TYPE		Ask from Representative
CARBON STEEL		

875 SERIES PUMP



875-24000



1025 Series 10.25 In (260.4 mm OD)

1025-35000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	3.6	180	2
2	5.1	265	5
3	6.6	350	7
4	8.1	435	10
5	9.6	520	13
6	11.1	605	16
7	12.6	690	18
8	14.1	775	21
9	15.6	860	24
10	17.2	045	27
11	18.6	1030	29
12	20.1	1115	32
13	21.6	1200	35
14	23.1	1285	38
15	24.6	1370	40

For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD		Ask from Representative
STANDARD BOLTO ON INTAKE		Ask from Representative
STANDARD GAS SEPARATOR TYPE		Ask from Representative
CARBON STEEL		

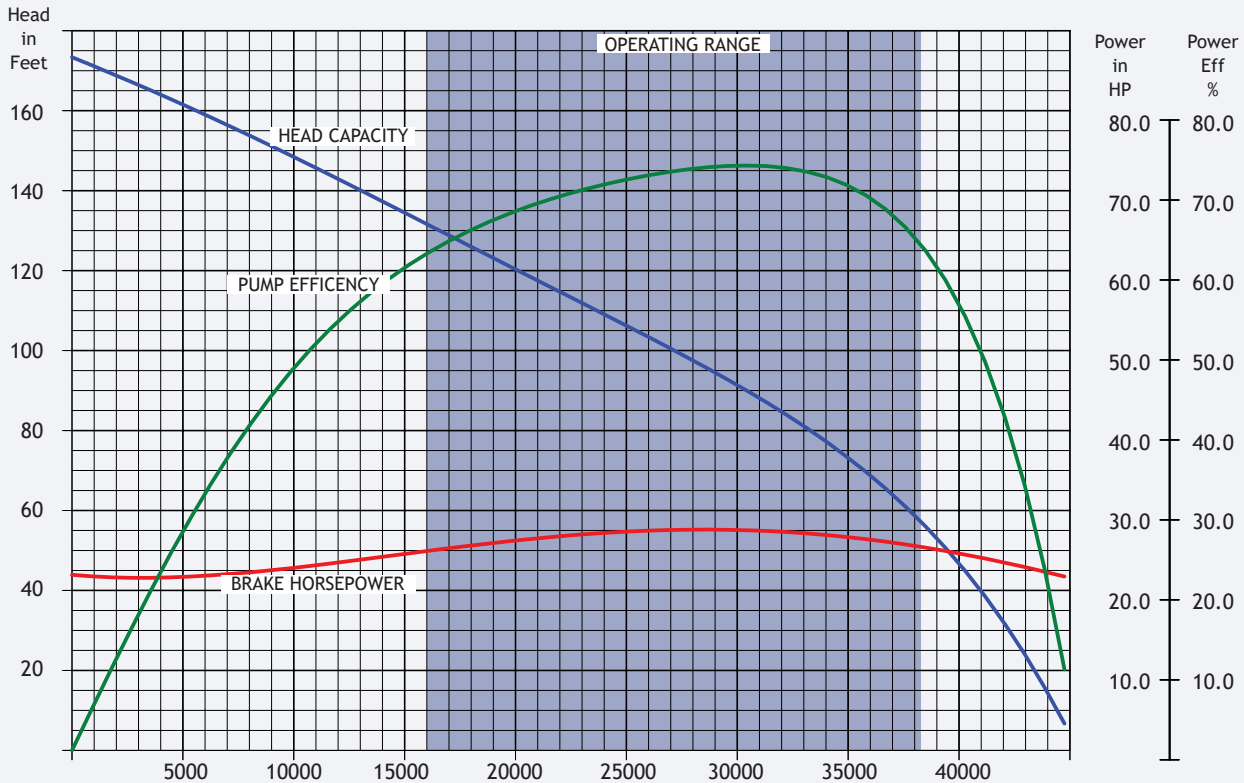
1025 SERIES PUMP



1025-35000

1025 SERIES 1025-35000

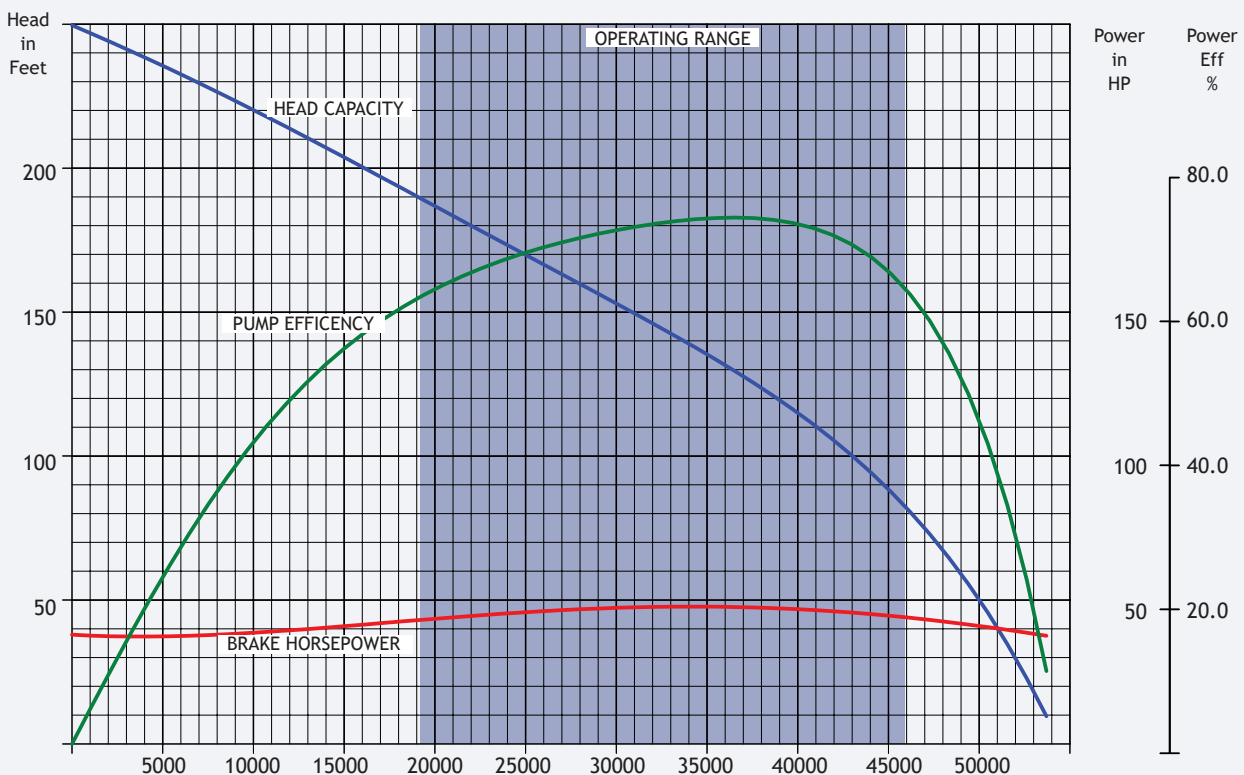
50 Hz



PRM = 2917 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

1025 SERIES 1025-35000

60 Hz



PRM = 3500 Sp. Gr.=1.0 1STAGE PERFORMANCE CURVE Flow in BPD

1025 Series 10.25 In (260.4 mm OD)

1025-45000

HSG	LENGTH (Feet)	WEIGHT (Pounds)	NO. OF STAGES STANDARD SYSTEM
1	3.6	180	2
2	5.1	265	5
3	6.6	350	7
4	8.1	435	10
5	9.6	520	13
6	11.1	605	16
7	12.6	690	18
8	14.1	775	21
9	15.6	860	24
10	17.2	045	27
11	18.6	1030	29
12	20.1	1115	32
13	21.6	1200	35
14	23.1	1285	38
15	24.6	1370	40

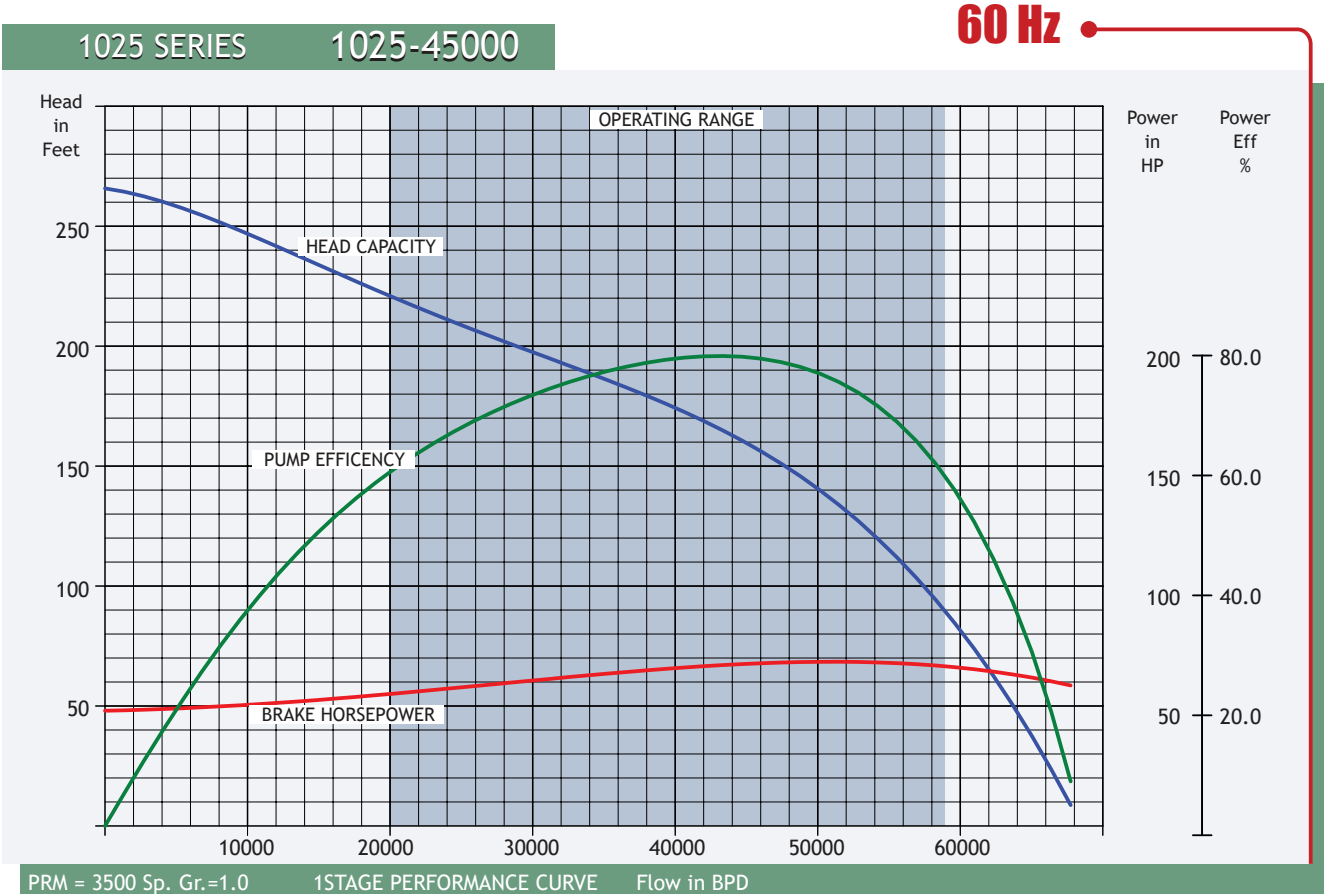
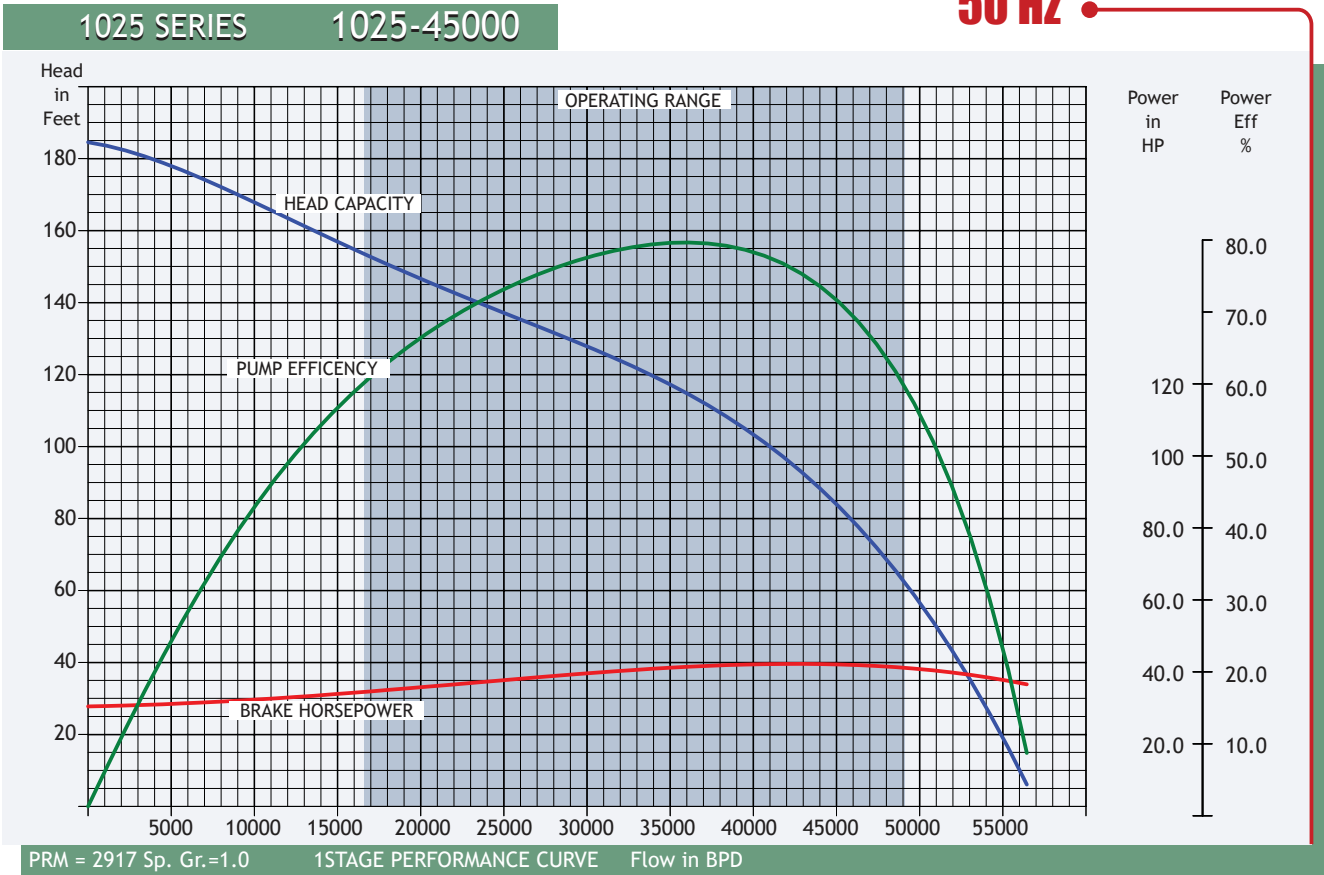
For shipping length - add 0.2 Feet

DESCRIPTIONS	LENGTH (Feet)	WEIGHT (Pounds)
BOLT ON HEAD		Ask from Representative
STANDARD BOLTO ON INTAKE		Ask from Representative
STANDARD GAS SEPARATOR TYPE		Ask from Representative
CARBON STEEL		

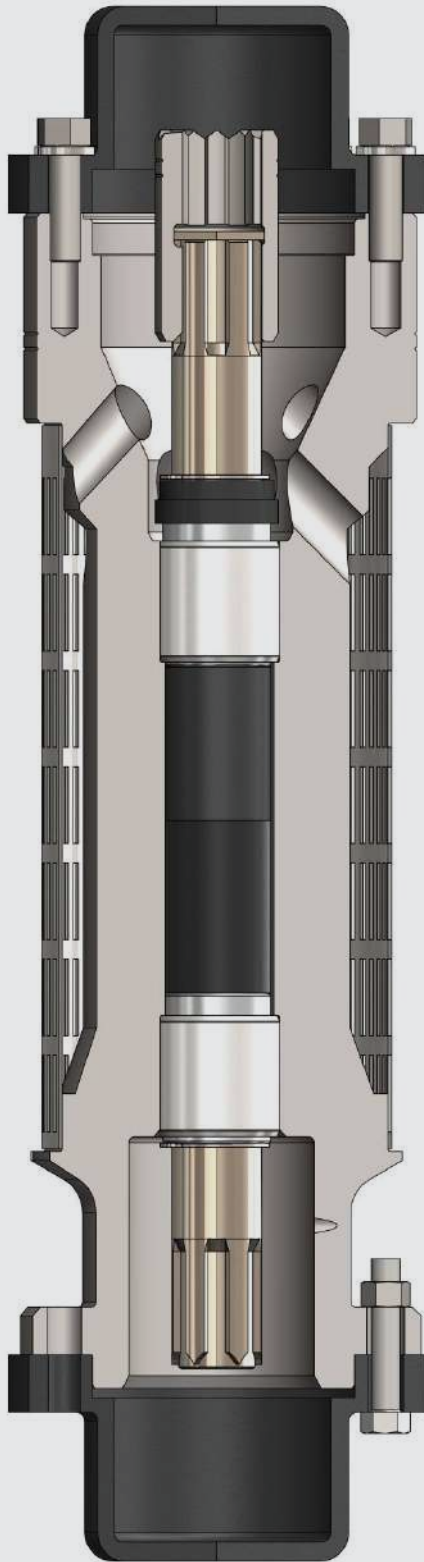
1025 SERIES PUMP



1025-45000



GAS SEPERATOR



Material Option

Item.	Standard Material	Optional Material
Fasteners	S-Trim	M-Trim
Base	CS	304, 316, 416, 420, Duplex
Snap Ring	CS	304, Monel
Shedder	HSN	Aflas
Housing	CS	304, 316, 9 Chrome
Shaft	Monel K500	Inconel
Coupling	420SS	304, 316, Monel R-405

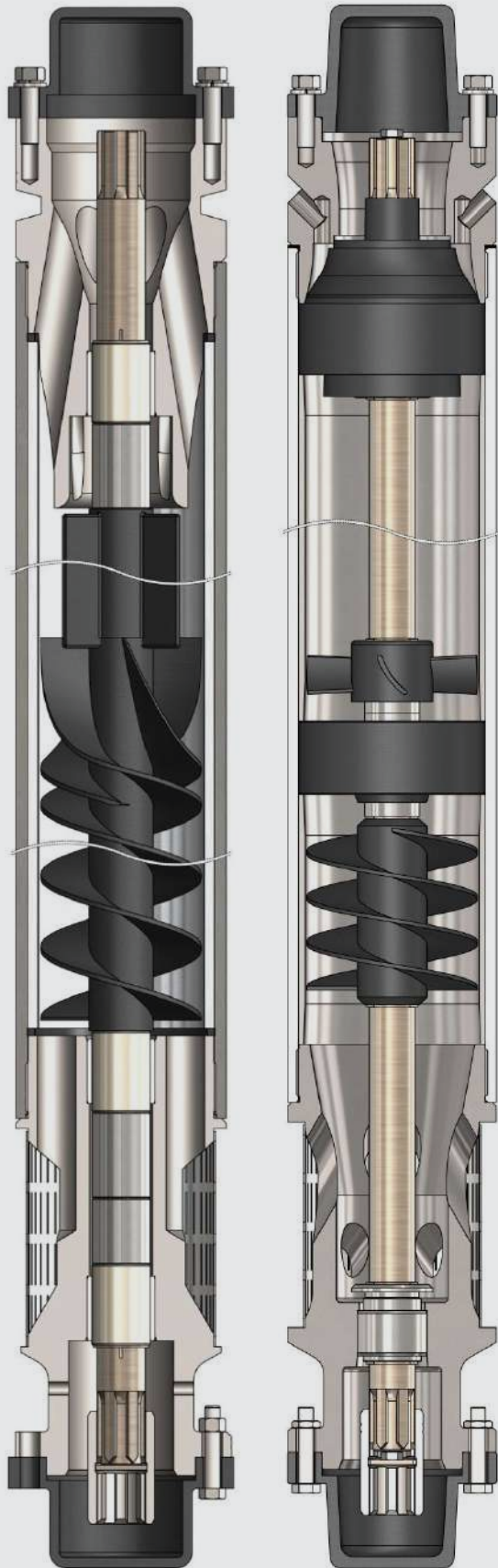
GAS SEPERATOR

Series	O.D.	Shaft O.D.	Length		Weight	
	in	in	ft	m	lbs	kg
338	3.38	0.688	1.00	0.30	24.3	11
387	3.87	0.875	1.00	0.30	30.9	14
400	4.00	0.875	1.00	0.30	30.9	14
513	5.25	1.187	1.24	0.38	52.9	24
538	5.38	1.187	1.24	0.38	55.1	25
562	5.62	1.187	1.25	0.38	57.3	26
675	6.75	1.187	1.30	0.40	77.2	35

Note: The length in table is the installation length, and the transport length needs to be added to 0.14m.



NOVA PETROLEUM
SERVICES



Rotary Gas Separator

Vortex Gas Separator

GAS SEPARATOR

Material Option

Item.	Standard Material	Optional Material
Fasteners	S-Trim	M-Trim
Head and Base	CS	304, 316, 416, 420, Duplex
Snap Ring	CS	304, Monel
Inducer	Type 1 Ni-Resist	Type 2, Type 3, Type 4 Ni-Resist
Housing	CS	304, 316, 9 Chrome
Shaft	Monel K-500	Inconel
Coupling	420SS	304, 316, Monel R-405

Nomenclature

Type	Description
UT	Upper Tandem
ST/LT	Standard, Lower Tandem

Rotate Direction

Type	Description
CCW	Counter Clockwise
CW	Clockwise

Note: Gas separator has ability of antiabrasive.

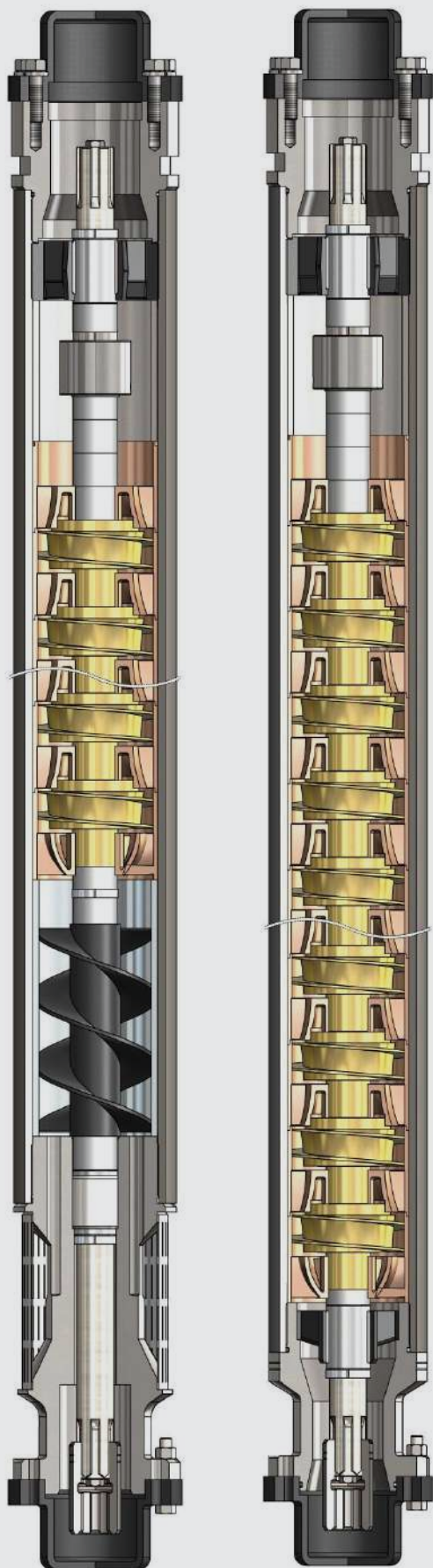
Rotary Gas Separator

Series	O.D.	Shaft O.D.	Length		Weight		TYPE
	in		in	ft	m	lbs	
338	3.38	0.688	2.4	0.7	30.9	14	UT
			2.6	0.8	33.1	15	ST/LT
			4.5	1.4	63.9	29	Tandem
387	3.87	0.875	2.4	0.7	66.1	30	UT
			2.7	0.8	70.5	32	ST/LT
			4.7	1.4	136.7	62	Tandem
400	4.00	0.875	2.4	0.7	66.1	30	UT
			2.7	0.8	70.5	32	ST/LT
			4.7	1.4	136.7	62	Tandem
513	5.13	1.187	3.6	1.1	147.7	67	UT
			4.0	1.2	154.3	70	ST/LT
			7.1	2.2	302.0	137	Tandem
538	5.38	1.187	3.6	1.1	152.1	69	UT
			4.0	1.2	158.7	72	ST/LT
			7.1	2.2	310.9	141	Tandem

Vortex Gas Separator

Series	O.D.	Shaft O.D.	Length		Weight		TYPE
	in		in	ft	m	lbs	
400	4.00	0.875	2.28	0.70	72.8	33	UT
			2.55	0.78	77.2	35	ST/LT
538	5.38	1.187	3.46	1.05	163.1	74	UT
			2.99	0.91	169.8	77	ST/LT

Note: The length in table is the installation length, and the transport length needs to be added to 0.14m.



Gas Process Separator

Gas Separator

Material

Item.	Standard Material	Optional Material
Fasteners	S-Trim	M-Trim
Head and Base	CS	304、 316、 416、 420、 Duplex
O-Ring	HSN	AFLAS
Impeller and Diffuser	Type 1 Ni-Resist	Type 2、 Type 3、 Type 4 Ni-Resist
Housing	CS	304、 316、 9 Chrome
Shaft	Monel K-500	Inconel
Coupling	420SS	304、 316、 Monel R-405

Counter Clockwise

Series	Capacity at 60Hz(BPD)	Capacity at 50Hz(m ³ /d)	O.D.	shaft O.D.
			in	in
GP400 9-16	944-1623	125-215	4.00	0.875
GP400 11-18	1094-1849	145-245	4.00	0.875
GP400 23-40	2340-4001	310-530	4.00	0.875
GP400 35-64	3545-6416	470-850	4.00	0.875
GP513 20-32	1963-3246	260-430	5.13	1.187
GP513 32-54	3246-5435	430-720	5.13	1.187
GP513 63-110	6265-11020	830-1460	5.13	1.187

Clockwise

Series	Capacity at 60Hz(BPD)	Capacity at 50Hz(m ³ /d)	O.D.	shaft O.D.
			in	in
GP400 13-22	1291-2151	170-285	4.00	0.688
GP400 20-38	2038-3774	270-500	4.00	0.688
GP400 35-64	3545-6416	470-850	4.00	0.875
GP513 55-94	5510-9435	730-1250	5.13	0.875
GP513 63-110	6265-11020	830-1460	5.13	1.187

Counter Clockwise

Series	Capacity at 60Hz(BPD)	Capacity at 50Hz(m ³ /d)	O.D.	shaft O.D.
			in	in
GP-S400 9-16	944-1623	125-215	4.00	0.875
GP-S400 11-18	1094-1849	145-245	4.00	0.875
GP-S400 23-40	2340-4001	310-530	4.00	0.875
GP-S400 35-64	3545-6416	470-850	4.00	0.875
GP-S513 20-32	1963-3246	260-430	5.13	1.187
GP-S513 32-54	3246-5435	430-720	5.13	1.187
GP-S513 63-110	6265-11020	830-1460	5.13	1.187

Clockwise

Series	Capacity at 60Hz(BPD)	Capacity at 50Hz(m ³ /d)	O.D.	shaft O.D.
			in	in
GP-S400 13-22	1291-2151	170-285	4.00	0.688
GP-S400 20-38	2038-3774	270-500	4.00	0.688
GP-S400 35-64	3545-6416	470-850	4.00	0.875
GP-S513 55-94	5510-9435	730-1250	5.13	0.875
GP-S513 63-110	6265-11020	830-1460	5.13	1.187

Bolt-On Discharge Head

Series	Description	Thread	Length		Weight	
			ft	m	lbs	kg
338	2 7/8" EUE	8RD	0.5	0.15	7.1	3.2
	2 7/8" NU	10RD	0.5	0.15	7.1	3.2
	2 3/8" EUE	8RD	0.5	0.15	7.1	3.2
387	2 7/8" EUE	8RD	0.5	0.15	7.2	3.3
	2 7/8" NU	10RD	0.5	0.15	7.2	3.3
	2 3/8" EUE	8RD	0.5	0.15	7.2	3.3
400	2 7/8" EUE	8RD	0.6	0.16	7.3	3.3
	2 7/8" NU	10RD	0.6	0.16	7.3	3.3
	2 3/8" EUE	8RD	0.6	0.16	7.3	3.3
513/540	3 1/2" EUE	8RD	0.6	0.16	12.8	5.8
	3 1/2" NU	10RD	0.6	0.16	12.8	5.8
	2 7/8" EUE	8RD	0.6	0.16	9.3	4.2
	2 7/8" NU	10RD	0.6	0.16	9.3	4.2
	4 1/2" EUE	8RD	0.6	0.17	13.3	6
538	3 1/2" EUE	8RD	0.6	0.16	11.7	5.3
	3 1/2" NU	10RD	0.6	0.16	11.7	5.3
562	4 1/2" EUE	8RD	0.6	0.16	13.3	6
675	4 1/2" EUE	8RD	0.7	0.21	20.7	9.4

Check Valve

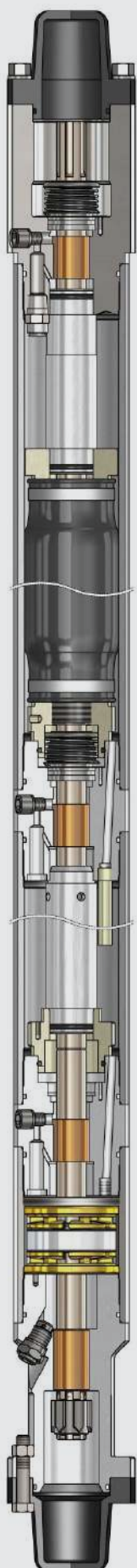
Description	Thread	Length		Weight	
		ft	m	lbs	kg
2 3/8" EUE	8RD	0.69	0.21	11	5
2 7/8" EUE	8RD	0.69	0.21	11	5
2 7/8" NU	10RD	0.69	0.21	11	5
3 1/2" EUE	8RD	0.72	0.22	18	8
3 1/2" NU	10RD	0.72	0.22	18	8
4 1/2" EUE	8RD	0.87	0.265	18	8

Bleeder Valve

Description	Thread	Length		Weight	
		ft	m	lbs	kg
2 3/8" EUE	8RD	0.69	0.21	11	5
2 7/8" EUE	8RD	0.69	0.21	11	5
2 7/8" NU	10RD	0.69	0.21	11	5
3 1/2" EUE	8RD	0.72	0.22	18	8
3 1/2" NU	10RD	0.67	0.20	14	6
4 1/2" EUE	8RD	0.72	0.22	18	8

Note: The length in table is the transport length.

PROTECTOR



Material Option

Item.	Standard Material	Optional Material
Fasteners	S-Trim	M-Trim
Head and Base	CS	304, 316, 416, 420, Duplex
O-Ring	HSN	AFLAS
Bag	HSN	AFLAS
Thrust Bearing	Bronze	High Load
D&F Valve	304	Monel R-405
Plug	CS	Monel K-500
Housing	CS	304, 316, 9 Chrome
Shaft	Monel K-500	Inconel
Snap Ring	304	Inconel

Nomenclature

Type	Description
L	Labyrinth
SB	Single Bag
DB	Double Bag
LSL	Modular, Labyrinth Series Labyrinth
BSL	Modular, Bag Series Labyrinth
BSB	Modular, Bag Series Bag
LSSL	Modular, Labyrinth Series Labyrinth Series Labyrinth
LSSB	Modular, Labyrinth Series Labyrinth Series Bag
LSBPB	Modular, Labyrinth Series Bag Parallel Bag
LSBSB	Modular, Labyrinth Series Bag Series Bag
BPBSL	Modular, Bag Parallel Bag Series Labyrinth
BSBSL	Modular, Bag Series Bag Series Labyrinth
LSSBPB	Modular, Labyrinth Series Labyrinth Series Bag Parallel Bag
BPBSL	Modular, Bag Parallel Bag Series Labyrinth Series Labyrinth
BPBSBPB	Modular, Bag Parallel Bag Series Bag Parallel Bag
HL	High-load thrust bearing

338 Series Protector (for 375 Series Motor)

Outside diameter	3.38in
Shaft diameter	0.875in
Shaft BHP Max. @ 60Hz	256HP
Shaft BHP Max. @ 50Hz	213HP
Std. Thrust Bearing Max load @ 60Hz	820lbs
Std. Thrust Bearing Max load @ 50Hz	685lbs
HL Thrust Bearing Max load @ 60Hz	1600lbs
HL Thrust Bearing Max load @ 50Hz	1400lbs

Type	Length		Weight		Chamber Number
	ft	m	lbs	kg	
L	5.26	1.60	115	52.2	2
SB	3.53	1.08	77	34.9	1
DB	5.60	1.71	110	49.9	2
LSL	5.85	1.78	130	59.0	2
LSB	5.85	1.78	135	61.2	2
BSL	5.85	1.78	135	61.2	2
BSB	5.85	1.78	135	61.2	2
LSLSL	8.17	2.49	160	72.6	3
LSLSB	8.17	2.49	170	77.1	3
LSBPB	8.17	2.49	170	77.1	3
LSBSB	8.17	2.49	180	81.6	3
BSBSL	8.17	2.49	180	81.6	3
BPBSL	8.17	2.49	180	81.6	3

Note: The length in table is the installation length, and the transport length needs to be added to 0.14m.

387/400 SERIES PROTECTOR



387/400 SERIES

387/400 Series Protector (for 456 Series Motor)

Outside diameter	3.87/4.00in
Shaft diameter	0.875in
Shaft BHP Max. @ 60Hz	256HP
Shaft BHP Max. @ 50Hz	213HP
Std. Thrust Bearing Max load @ 60Hz	1300lbs
Std. Thrust Bearing Max load @ 50Hz	1000lbs
HL Thrust Bearing Max load @ 60Hz	3300lbs
HL Thrust Bearing Max load @ 50Hz	2750lbs

Type	Length		Weight		Chamber Number
	ft	m	lbs	kg	
L	5.25	1.60	124	56.2	2
SB	3.55	1.08	122	55.3	1
DB	5.62	1.71	132	59.9	2
LSL	5.94	1.81	150	68.0	2
LSB	5.94	1.81	155	70.3	2
BSL	5.94	1.81	155	70.3	2
BSB	5.94	1.81	155	70.3	2
LSLSL	8.20	2.50	190	86.2	3
LSLSB	8.20	2.50	200	90.7	3
LSBPB	8.20	2.50	200	90.7	3
LSBSB	8.20	2.50	205	93.0	3
BPBSL	8.20	2.50	205	93.0	3
BSBSL	8.20	2.50	205	93.0	3
LSLSBPB	10.46	3.19	250	113.4	4
BPBSLSL	10.46	3.19	250	113.4	4
BPBSBPB	10.46	3.19	250	113.4	4

Note: The length in table is the installation length, and the transport length needs to be added to 0.14m.

540 Series Protector (for 540 or 562 Series Motor)

Outside diameter	5.13in
Shaft diameter	1.187in
Shaft BHP Max. @ 60Hz	637HP
Shaft BHP Max. @ 50Hz	531HP
Std. Thrust Bearing Max load @ 60Hz	2400lbs
Std. Thrust Bearing Max load @ 50Hz	2000lbs
HL Thrust Bearing Max load @ 60Hz	5500lbs
HL Thrust Bearing Max load @ 50Hz	4580lbs

Type	Length		Weight		Chamber Number
	ft	m	lbs	kg	
L	5.75	1.75	190	86.2	2
SB	4.02	1.22	177	80.3	1
DB	6.28	1.91	256	116.1	2
LSL	6.50	1.98	275	124.7	2
LSB	6.50	1.98	280	127.0	2
BSL	6.50	1.98	280	127.0	2
BSB	6.50	1.98	290	131.5	2
LSLSL	8.93	2.72	370	167.8	3
LSLSB	8.93	2.72	370	167.8	3
LSBPB	8.93	2.72	380	172.4	3
LSBSB	8.93	2.72	370	167.8	3
BPBSL	8.93	2.72	380	172.4	3
BSBSL	8.93	2.72	370	167.8	3
LSLSBPB	11.37	3.47	445	201.9	4
BPBSLSL	11.37	3.47	445	201.9	4
BPBSBPB	11.37	3.47	445	201.9	4
BPBSBPBSL	13.81	4.21	520	236	5

Note: The length in table is the installation length, and the transport length needs to be added to 0.15m.

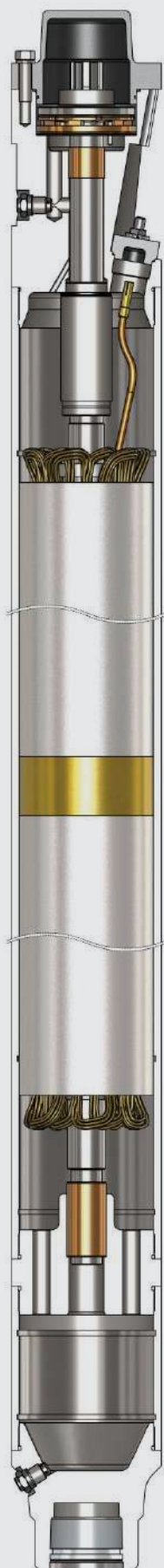
675 SERIES PROTECTOR

675 Series Protector (for 738 Series Motor)

Outside diameter	6.75in
Shaft diameter	1.5in
Shaft BHP Max. @ 60Hz	1000HP
Shaft BHP Max. @ 50Hz	833HP
Std. Thrust Bearing Max load @ 60Hz	5500lbs
Std. Thrust Bearing Max load @ 50Hz	4580lbs

Type	Length		Weight		Chamber Number
	ft	m	lbs	kg	
LSL	6.45	1.97	340	154.2	2
LSB	6.45	1.97	350	158.8	2
BSL	6.45	1.97	350	158.8	2
BSB	6.45	1.97	350	158.8	2
LSLSL	8.89	2.71	540	244.9	3
LSLSB	8.89	2.71	545	247.2	3
LSBSB	8.89	2.71	550	249.5	3
LSBPB	8.89	2.71	550	249.5	3
BSBSL	8.89	2.71	550	249.5	3
BPBSL	8.89	2.71	550	249.5	3
LSLSBPB	11.32	3.45	750	340.2	4
BPBSLSL	11.32	3.45	750	340.2	4
BPBSBPB	11.32	3.45	750	340.2	4

Note: The length in table is the installation length, and the transport length needs to be added to 0.14m.



Material Option

Item.	Standard Material	Optional Material
Fasteners	S-Trim	M-Trim
Head and Base	CS	304、 316、 416、 420、 Duplex
Coupling	CS	MONEL R-405
O-Ring	HSN	AFLAS
Thrust Bearing	Bronze	High Load
D&F Valve	304	Monel R-405
Housing	CS	304、 316、 9 Chrome
Shaft	4130 Steel	4140 Steel

Nomenclature

Type	Description
SD	Standard motor
HE	High capacity and efficiency motor
PM	Permanent magnet motor(PMM)
ST	Single Motor, can be equipped with centralizer
UT	Upper Tandem, bottom to connect with CT/LT
CT	Center Tandem, top to connect with UT, bottom to connect with LT
LT	Lower Tandem, top to connect with UT/CT
UMB	Universal Motor Base, Y-Point
SMB	Sensor Motor Base, Y-Point with I Wire
UMH	Universal Motor Head, to drive CT/LT
UT+UMB	can be used as ST, can be equipped with centralizer
UT+SMB	can be used as ST, can be equipped with sensor
CT+UMB	can be used as LT, can be equipped with centralizer
CT+SMB	can be used as LT, can be equipped with sensor
CBM	Motor combined with single bag seal

Motor Temperature Rating for Operating

Temperature
180°C
200°C
230°C
260°C - 300°C

Note: All series motors are available for Tape-in/Plug-in.

HE375 Series Max. Hp per rotor is 4.8HP
HE456 Series Max. Hp per rotor is 14HP

HE562 Series Max. Hp per rotor is 30HP
It is advised to choose 1.25 motor margin.

SD 375 MOTOR



SD 375 SERIES

SD 375 Motor

Outside diameter	3.75in	Operational motor data at 60Hz and 100% load		
Minimum casing size	4.5in			
Shaft rating at 60Hz	120HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	100HP	100	74%	0.82

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
7.5	410	6.25	342	14	1.66	6.94	2.12	207	94	ST
						6.43	1.96	207	94	UT
						6.50	1.98	207	94	CT
7.5	480	6.25	400	12	2.26	6.94	2.12	207	94	ST
						6.43	1.96	207	94	UT
						6.50	1.98	207	94	CT
10.5	390	8.75	325	20.5	1.00	8.78	2.68	269	122	ST
						8.30	2.53	269	122	UT
						8.33	2.54	269	122	CT
10.5	680	8.75	567	12	3.06	8.78	2.68	269	122	ST
						8.30	2.53	269	122	UT
						8.33	2.54	269	122	CT
15	315	12.5	263	36	0.48	11.56	3.53	360	163	ST
						11.09	3.38	360	163	UT
						11.12	3.39	360	163	CT
15	400	12.5	333	28	0.68	11.56	3.53	360	163	ST
						11.09	3.38	360	163	UT
						11.12	3.39	360	163	CT
19.5	287	16.25	239	51	0.32	14.35	4.38	455	206	ST
						13.85	4.22	455	206	UT
						13.91	4.24	455	206	CT
19.5	387	16.25	323	38	0.62	14.35	4.38	455	206	ST
						13.85	4.22	455	206	UT
						13.91	4.24	455	206	CT
19.5	630	16.25	525	23	1.34	14.35	4.38	455	206	ST
						13.85	4.22	455	206	UT
						13.91	4.24	455	206	CT
19.5	980	16.25	817	15	4.00	14.35	4.38	455	206	ST
						13.85	4.22	455	206	UT
						13.91	4.24	455	206	CT
22.5	330	18.75	275	51.5	0.38	16.19	4.94	536	243	ST
						15.72	4.79	536	243	UT
						15.75	4.80	536	243	CT

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
22.5	440	18.75	367	39	0.62	16.19	4.94	536	243	ST
						15.72	4.79	536	243	UT
						15.75	4.80	536	243	CT
22.5	730	18.75	608	23	1.54	16.19	4.94	536	243	ST
						15.72	4.79	536	243	UT
						15.75	4.80	536	243	CT
25.5	370	21.25	308	51	0.42	18.06	5.51	658	298	ST
						17.55	5.35	658	298	UT
						17.62	5.37	658	298	CT
25.5	500	21.25	417	37	0.74	18.06	5.51	658	298	ST
						17.55	5.35	658	298	UT
						17.62	5.37	658	298	CT
25.5	630	21.25	525	30	1.04	18.06	5.51	658	298	ST
						17.55	5.35	658	298	UT
						17.62	5.37	658	298	CT
25.5	760	21.25	633	25	1.62	18.06	5.51	658	298	ST
						17.55	5.35	658	298	UT
						17.62	5.37	658	298	CT
25.5	1250	21.25	1042	15	5.16	18.06	5.51	658	298	ST
						17.55	5.35	658	298	UT
						17.62	5.37	658	298	CT
27	390	22.5	325	48	0.43	19.01	5.80	719	326	ST
						18.50	5.64	719	326	UT
						18.57	5.66	719	326	CT
27	560	22.5	467	33	0.72	19.01	5.80	719	326	ST
						18.50	5.64	719	326	UT
						18.57	5.66	719	326	CT
27	665	22.5	554	28	1.15	19.01	5.80	719	326	ST
						18.50	5.64	719	326	UT
						18.57	5.66	719	326	CT
27	805	22.5	671	23	1.57	19.01	5.80	719	326	ST
						18.50	5.64	719	326	UT
						18.57	5.66	719	326	CT
28.5	410	23.75	342	48	0.45	19.93	6.08	779	353	ST
						19.42	5.92	779	353	UT
						19.49	5.94	779	353	CT
28.5	560	23.75	467	33	0.76	19.93	6.08	779	353	ST
						19.42	5.92	779	353	UT
						19.49	5.94	779	353	CT

SD 375 SERIES MOTOR



SD 375 SERIES

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V							
28.5	700	23.75	583	28	1.21	19.93	6.08	779	353	ST
						19.42	5.92	779	353	UT
						19.49	5.94	779	353	CT
28.5	850	23.75	708	23	1.66	19.93	6.08	779	353	ST
						19.42	5.92	779	353	UT
						19.49	5.94	779	353	CT
30	435	25	363	48	0.47	20.88	6.37	838	380	ST
						20.37	6.21	838	380	UT
						20.44	6.23	838	380	CT
30	585	25	488	33	0.8	20.88	6.37	838	380	ST
						20.37	6.21	838	380	UT
						20.44	6.23	838	380	CT
30	740	25	617	28	1.27	20.88	6.37	838	380	ST
						20.37	6.21	838	380	UT
						20.44	6.23	838	380	CT
30	895	25	746	23	1.74	20.88	6.37	838	380	ST
						20.37	6.21	838	380	UT
						20.44	6.23	838	380	CT

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;
3. UT+UMB/CT+UMB: Installation length is UT/CT motor length plus 0.15m;
UT+SMB/CT+SMB: Installation length is UT/CT motor length plus 0.21m;
4. For ST, LT, UT+UMB, CT+UMB, UT+SMB and CT+SMB motors, the transport length needs to be added to 0.08m; for UT and CT Motors, the transport length needs to be added to 0.15m.

ME 375 Series Motor

Outside diameter	3.75in	Operational motor data at 60Hz and 100% load		
Minimum casing size	4.5in			
Shaft rating at 60Hz	260HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	217HP	100	68%	0.83

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
18	415	15	346	34.5	0.83	6.79	2.07	216	98	UT
						6.86	2.09	216	98	CT
24	465	20	388	39	0.80	7.97	2.43	256	116	UT
						8.01	2.44	256	116	CT
24	520	20	433	34.5	1.00	7.97	2.43	256	116	UT
						8.01	2.44	256	116	CT
28	480	23.3	400	44	0.70	9.15	2.79	298	135	UT
						9.19	2.80	298	135	CT
28	560	23.3	467	39	0.94	9.15	2.79	298	135	UT
						9.19	2.80	298	135	CT
28	620	23.3	517	34.5	1.17	9.15	2.79	298	135	UT
						9.19	2.80	298	135	CT
33	315	27.5	263	78.5	0.25	10.30	3.14	338	153	UT
						10.33	3.15	338	153	CT
33	395	27.5	329	63	0.40	10.30	3.14	338	153	UT
						10.33	3.15	338	153	CT
33	480	27.5	400	52	0.60	10.30	3.14	338	153	UT
						10.33	3.15	338	153	CT
33	560	27.5	467	44	0.80	10.30	3.14	338	153	UT
						10.33	3.15	338	153	CT
33	645	27.5	538	39	1.07	10.30	3.14	338	153	UT
						10.33	3.15	338	153	CT
33	730	27.5	608	34.5	1.34	10.30	3.14	338	153	UT
						10.33	3.15	338	153	CT
38	360	31.7	300	78.5	0.28	11.48	3.50	380	172	UT
						11.52	3.51	380	172	CT
38	455	31.7	379	63	0.45	11.48	3.50	380	172	UT
						11.52	3.51	380	172	CT
38	550	31.7	458	52	0.67	11.48	3.50	380	172	UT
						11.52	3.51	380	172	CT
38	640	31.7	533	44	0.90	11.48	3.50	380	172	UT
						11.52	3.51	380	172	CT
38	740	31.7	617	39	1.20	11.48	3.50	380	172	UT

ME 375 SERIES MOTOR



ME 375 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
38	740	31.7	617	39	1.20	11.52	3.51	380	172	CT
38	825	31.7	688	34.5	1.50	11.48	3.50	380	172	UT
						11.52	3.51	380	172	CT
43	405	35.8	338	78.5	0.32	12.63	3.85	419	190	UT
						12.70	3.87	419	190	CT
43	510	35.8	425	63	0.50	12.63	3.85	419	190	UT
						12.70	3.87	419	190	CT
43	620	35.8	517	52	0.75	12.63	3.85	419	190	UT
						12.70	3.87	419	190	CT
43	725	35.8	604	44	1.00	12.63	3.85	419	190	UT
						12.70	3.87	419	190	CT
43	830	35.8	692	39	1.34	12.63	3.85	419	190	UT
						12.70	3.87	419	190	CT
43	930	35.8	775	34.5	1.67	12.63	3.85	419	190	UT
						12.70	3.87	419	190	CT
48	450	40	375	78.5	0.35	13.81	4.21	461	209	UT
						13.85	4.22	461	209	CT
48	570	40	475	63	0.55	13.81	4.21	461	209	UT
						13.85	4.22	461	209	CT
48	690	40	575	52	0.83	13.81	4.21	461	209	UT
						13.85	4.22	461	209	CT
48	805	40	671	44	1.09	13.81	4.21	461	209	UT
						13.85	4.22	461	209	CT
48	925	40	771	39	1.47	13.81	4.21	461	209	UT
						13.85	4.22	461	209	CT
48	1035	40	863	34.5	1.84	13.81	4.21	461	209	UT
						13.85	4.22	461	209	CT
52	490	43.3	408	78.5	0.38	14.96	4.56	501	227	UT
						15.03	4.58	501	227	CT
52	620	43.3	517	63	0.60	14.96	4.56	501	227	UT
						15.03	4.58	501	227	CT
52	755	43.3	629	52	0.90	14.96	4.56	501	227	UT
						15.03	4.58	501	227	CT
52	875	43.3	729	44	1.19	14.96	4.56	501	227	UT
						15.03	4.58	501	227	CT
52	1010	43.3	842	39	1.61	14.96	4.56	501	227	UT
						15.03	4.58	501	227	CT
52	1135	43.3	946	34.5	2.01	14.96	4.56	501	227	UT
						15.03	4.58	501	227	CT

ME 375 SERIES MOTOR

ME 375 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
57	540	47.5	450	78.5	0.41	16.14	4.92	543	246	UT
						16.17	4.93	543	246	CT
57	675	47.5	563	63	0.65	16.14	4.92	543	246	UT
						16.17	4.93	543	246	CT
57	815	47.5	679	52	0.98	16.14	4.92	543	246	UT
						16.17	4.93	543	246	CT
57	955	47.5	796	44	1.29	16.14	4.92	543	246	UT
						16.17	4.93	543	246	CT
57	1100	47.5	917	39	1.74	16.14	4.92	543	246	UT
						16.17	4.93	543	246	CT
57	1240	47.5	1033	34.5	2.17	16.14	4.92	543	246	UT
						16.17	4.93	543	246	CT
62	585	51.7	488	78.5	0.44	17.32	5.28	583	264	UT
						17.36	5.29	583	264	CT
62	735	51.7	613	63	0.70	17.32	5.28	583	264	UT
						17.36	5.29	583	264	CT
62	890	51.7	742	52	1.05	17.32	5.28	583	264	UT
						17.36	5.29	583	264	CT
62	1040	51.7	867	44	1.39	17.32	5.28	583	264	UT
						17.36	5.29	583	264	CT
62	1195	51.7	996	39	1.88	17.32	5.28	583	264	UT
						17.36	5.29	583	264	CT
62	1340	51.7	1117	34.5	2.34	17.32	5.28	583	264	UT
						17.36	5.29	583	264	CT
67	630	55.8	525	78.5	0.48	18.47	5.63	624	283	UT
						18.50	5.64	624	283	CT
67	790	55.8	658	63	0.75	18.47	5.63	624	283	UT
						18.50	5.64	624	283	CT
67	960	55.8	800	52	1.13	18.47	5.63	624	283	UT
						18.50	5.64	624	283	CT
67	1125	55.8	938	44	1.49	18.47	5.63	624	283	UT
						18.50	5.64	624	283	CT
67	1285	55.8	1071	39	2.01	18.47	5.63	624	283	UT
						18.50	5.64	624	283	CT
67	1450	55.8	1208	34.5	2.51	18.47	5.63	624	283	UT
						18.50	5.64	624	283	CT
72	675	60	563	78.5	0.51	19.65	5.99	664	301	UT
						19.69	6.00	664	301	CT
72	850	60	708	63	0.80	19.65	5.99	664	301	UT

ME 375 SERIES MOTOR



ME 375 SERIES MOTOR

60Hz rating		50Hz rating		Current A	Ph-Ph Resistance Ω	Length		Weight		Configuration
Power HP	Volts V	Power HP	Volts V			ft	m	lbs	kg	
72	850	60	708			63	0.80	19.69	6.00	
72	1030	60	858	52	1.20	19.65	5.99	664	301	UT
						19.69	6.00	664	301	CT
72	1205	60	1004	44	1.59	19.65	5.99	664	301	UT
						19.69	6.00	664	301	CT
72	1380	60	1150	39	2.14	19.65	5.99	664	301	UT
						19.69	6.00	664	301	CT
72	1555	60	1296	34.5	2.68	19.65	5.99	664	301	UT
						19.69	6.00	664	301	CT
76	715	63.3	596	78.5	0.54	20.80	6.34	706	320	UT
						20.87	6.36	706	320	CT
76	900	63.3	750	63	0.85	20.80	6.34	706	320	UT
						20.87	6.36	706	320	CT
76	1095	63.3	913	52	1.28	20.80	6.34	706	320	UT
						20.87	6.36	706	320	CT
76	1270	63.3	1058	44	1.69	20.80	6.34	706	320	UT
						20.87	6.36	706	320	CT
76	1460	63.3	1217	39	2.28	20.80	6.34	706	320	UT
						20.87	6.36	706	320	CT
76	1645	63.3	1371	34.5	2.84	20.80	6.34	706	320	UT
						20.87	6.36	706	320	CT
80	755	66.7	629	78.5	0.57	21.98	6.70	746	338	UT
						22.01	6.71	746	338	CT
80	950	66.7	792	63	0.90	21.98	6.70	746	338	UT
						22.01	6.71	746	338	CT
80	1155	66.7	963	52	1.35	21.98	6.70	746	338	UT
						22.01	6.71	746	338	CT
80	1345	66.7	1121	44	1.79	21.98	6.70	746	338	UT
						22.01	6.71	746	338	CT
80	1545	66.7	1288	39	2.41	21.98	6.70	746	338	UT
						22.01	6.71	746	338	CT
80	1735	66.7	1446	34.5	3.01	21.98	6.70	746	338	UT
						22.01	6.71	746	338	CT
86	810	71.7	675	78.5	0.60	23.13	7.05	788	357	UT
						23.20	7.07	788	357	CT
86	1010	71.7	842	63	0.95	23.13	7.05	788	357	UT
						23.20	7.07	788	357	CT
86	1230	71.7	1025	52	1.43	23.13	7.05	788	357	UT
						23.20	7.07	788	357	CT

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
86	1435	71.7	1196	44	1.89	23.13	7.05	788	357	UT
						23.20	7.07	788	357	CT
86	1650	71.7	1375	39	2.55	23.13	7.05	788	357	UT
						23.20	7.07	788	357	CT
86	1860	71.7	1550	34.5	3.18	23.13	7.05	788	357	UT
						23.20	7.07	788	357	CT
91	855	75.8	713	78.5	0.63	24.31	7.41	827	375	UT
						24.34	7.42	827	375	CT
91	1075	75.8	896	63	1.00	24.31	7.41	827	375	UT
						24.34	7.42	827	375	CT
91	1300	75.8	1083	52	1.50	24.31	7.41	827	375	UT
						24.34	7.42	827	375	CT
91	1520	75.8	1267	44	1.99	24.31	7.41	827	375	UT
						24.34	7.42	827	375	CT
91	1750	75.8	1458	39	2.68	24.31	7.41	827	375	UT
						24.34	7.42	827	375	CT
91	1970	75.8	1642	34.5	3.35	24.31	7.41	827	375	UT
						24.34	7.42	827	375	CT
95	895	79.2	746	78.5	0.67	25.46	7.76	869	394	UT
						25.52	7.78	869	394	CT
95	1120	79.2	933	63	1.05	25.46	7.76	869	394	UT
						25.52	7.78	869	394	CT
95	1365	79.2	1138	52	1.58	25.46	7.76	869	394	UT
						25.52	7.78	869	394	CT
95	1585	79.2	1321	44	2.09	25.46	7.76	869	394	UT
						25.52	7.78	869	394	CT
95	1825	79.2	1521	39	2.81	25.46	7.76	869	394	UT
						25.52	7.78	869	394	CT
95	2055	79.2	1712.5	34.5	3.51	25.46	7.76	869	394	UT
						25.52	7.78	869	394	CT
100	940	83.3	783	78.5	0.70	26.64	8.12	909	412	UT
						26.67	8.13	909	412	CT
100	1175	83.3	979	63	1.10	26.64	8.12	909	412	UT
						26.67	8.13	909	412	CT
100	1435	83.3	1196	52	1.65	26.64	8.12	909	412	UT
						26.67	8.13	909	412	CT
100	1670	83.3	1392	44	2.19	26.64	8.12	909	412	UT
						26.67	8.13	909	412	CT
100	1915	83.3	1596	39	2.95	26.64	8.12	909	412	UT

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
100	1915	83.3	1596	39	2.95	26.67	8.13	909	412	CT
100	2160	83.3	1800	34.5	3.68	26.64	8.12	909	412	UT
						26.67	8.13	909	412	CT
105	990	87.5	825	78.5	0.73	27.82	8.48	951	431	UT
						27.85	8.49	951	431	CT
105	1230	87.5	1025	63	1.15	27.82	8.48	951	431	UT
						27.85	8.49	951	431	CT
105	1490	87.5	1242	52	1.73	27.82	8.48	951	431	UT
						27.85	8.49	951	431	CT
105	1755	87.5	1463	44	2.29	27.82	8.48	951	431	UT
						27.85	8.49	951	431	CT
105	2010	87.5	1675	39	3.08	27.82	8.48	951	431	UT
						27.85	8.49	951	431	CT
105	2250	87.5	1875	34.5	3.85	27.82	8.48	951	431	UT
						27.85	8.49	951	431	CT
110	1285	91.7	1071	63	1.19	29.00	8.84	993	450	UT
						29.04	8.85	993	450	CT
110	1835	91.7	1529	44	2.39	29.00	8.84	993	450	UT
						29.04	8.85	993	450	CT
110	2355	91.7	1963	34.5	4.02	29.00	8.84	993	450	UT
						29.04	8.85	993	450	CT
115	1340	95.8	1117	63	1.24	30.18	9.20	1035	469	UT
						30.22	9.21	1035	469	CT
115	1915	95.8	1596	44	2.48	30.18	9.20	1035	469	UT
						30.22	9.21	1035	469	CT
115	2460	95.8	2050	34.5	4.19	30.18	9.20	1035	469	UT
						30.22	9.21	1035	469	CT
120	1400	100.0	1167	63	1.29	31.36	9.56	1077	488	UT
						31.40	9.57	1077	488	CT
120	2000	100.0	1667	44	2.58	31.36	9.56	1077	488	UT
						31.40	9.57	1077	488	CT
120	2565	100.0	2138	34.5	4.36	31.36	9.56	1077	488	UT
						31.40	9.57	1077	488	CT
125	1460	104.2	1217	63	1.34	32.55	9.92	1119	507	UT
						32.58	9.93	1119	507	CT
125	2080	104.2	1733	44	2.68	32.55	9.92	1119	507	UT
						32.58	9.93	1119	507	CT
125	2670	104.2	2225	34.5	4.53	32.55	9.92	1119	507	UT
						32.58	9.93	1119	507	CT

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Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;
3. UT+UMB/CT+UMB: Installation length is UT/CT motor length plus 0.15m;
UT+SMB/CT+SMB: Installation length is UT/CT motor length plus 0.21m;
4. For UT+UMB, CT+UMB, UT+SMB and CT+SMB motors, the transport length needs to be added to 0.08m; for UT and CT Motors, the transport length needs to be added to 0.15m.

SD 456 SERIES MOTOR



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SD 456 Series Motor

Outside diameter	4.56in	Operational motor data at 60Hz and 100% load		
Minimum casing size	5.5in			
Shaft rating at 60Hz	480HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	400HP	100	77%	0.85

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
10	165	8.5	138	39	0.19	5.09	1.48	220	100	ST
						4.43	1.35	180	82	UT
10	400	8.5	333	17	1.16	5.09	1.48	220	100	ST
						4.43	1.35	180	82	UT
10	435	8.5	363	15	1.24	4.84	1.48	220	100	ST
						4.43	1.35	180	82	UT
10	460	8.5	383	15	1.30	4.84	1.48	220	100	ST
						4.43	1.35	180	82	UT
15	395	12.5	329	25	0.50	6.30	1.85	280	127	ST
						5.61	1.71	240	109	UT
15	435	12.5	363	23	0.70	6.05	1.85	280	127	ST
						5.61	1.71	240	109	UT
15	460	12.5	383	21	0.96	6.05	1.85	280	127	ST
						5.61	1.71	240	109	UT
15	655	12.5	546	16	1.70	6.05	1.85	280	127	ST
						5.61	1.71	240	109	UT
20	400	16.5	333	33	0.42	7.23	2.21	340	154	ST
						6.82	2.08	300	136	UT
20	450	16.5	375	29	0.56	7.23	2.21	340	154	ST
						6.82	2.08	300	136	UT
20	750	16.5	625	17	1.86	7.23	2.21	340	154	ST
						6.82	2.08	300	136	UT
25	410	21	342	39	0.40	8.42	2.57	400	181	ST
						8.01	2.44	360	163	UT
25	690	21	575	22	1.08	8.42	2.57	400	181	ST
						8.01	2.44	360	163	UT
30	425	25	355	45	0.30	9.63	2.94	460	208	ST
						9.22	2.81	420	190	UT
30	460	25	383	42	0.42	9.63	2.94	460	208	ST
						9.22	2.81	420	190	UT
30	750	25	625	26	1.10	9.63	2.94	460	208	ST
						9.22	2.81	420	190	UT
30	1260	25	1050	15	3.06	9.63	2.94	460	208	ST

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
30	1260	25	1050	15	3.06	9.22	2.81	420	190	UT
35	385	29.5	321	57	0.20	10.81	3.30	520	236	ST
						10.40	3.17	480	218	UT
35	675	29.5	563	33	0.64	10.81	3.30	520	236	ST
						10.40	3.17	480	218	UT
35	785	29.5	654	28	0.92	10.81	3.30	520	236	ST
						10.40	3.17	480	218	UT
40	430	33.5	359	59	0.24	11.99	3.66	578	262	ST
						11.61	3.54	537	243	UT
40	770	33.5	642	33	0.72	11.99	3.66	578	262	ST
						11.61	3.54	537	243	UT
40	880	33.5	733	29	1.04	11.99	3.66	578	262	ST
						11.61	3.54	537	243	UT
40	1340	33.5	1116	19	2.50	11.99	3.66	578	262	ST
						11.61	3.54	537	243	UT
50	675	41.5	562	47	0.48	14.42	4.40	695	315	ST
						14.01	4.27	655	297	UT
50	815	41.5	679	39	0.76	14.42	4.40	695	315	ST
						14.01	4.27	655	297	UT
50	955.2	41.5	796	33	0.88	14.42	4.40	695	315	ST
						14.01	4.27	655	297	UT
						14.14	4.31	657	298	CT
50	1070	41.5	892	31	1.24	14.42	4.40	695	315	ST
						14.01	4.27	655	297	UT
50	1210	41.5	1008	27	1.82	14.42	4.40	695	315	ST
						14.01	4.27	655	297	UT
50	1390	41.5	1158	23	2.26	14.42	4.40	695	315	ST
						14.01	4.27	655	297	UT
60	640	50	533	59	0.36	17.24	5.26	813	368	ST
						16.40	5.00	773	350	UT
60	745	50	621	52	0.54	17.24	5.26	813	368	ST
						16.40	5.00	773	350	UT
60	810	50	675	47	0.58	17.24	5.26	813	368	ST
						16.40	5.00	773	350	UT
60	969.6	50	808	39	0.90	17.24	5.26	813	368	ST
						16.40	5.00	773	350	UT
						16.54	5.04	773	350	CT
60	1330	50	1108	29	1.52	17.24	5.26	813	368	ST
						16.40	5.00	773	350	UT

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
60	1945	50	1620	20	3.64	17.24	5.26	813	368	ST
						16.40	5.00	773	350	UT
70	540	58.5	450	83	0.24	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						18.93	5.77	889	403	CT
						19.34	5.90	889	403	LT
70	750	58.5	625	60	0.42	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						18.93	5.77	889	403	CT
						19.34	5.90	889	403	LT
70	945	58.5	788	47	0.68	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						18.93	5.77	889	403	CT
						19.34	5.90	889	403	LT
70	1135	58.5	945	39	1.04	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						18.93	5.77	889	403	CT
						19.34	5.90	889	403	LT
70	1310	58.5	1092	35	1.17	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						18.93	5.77	889	403	CT
						19.34	5.90	889	403	LT
70	1548	58.5	1290	29	1.70	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						18.93	5.77	889	403	CT
						19.34	5.90	889	403	LT
70	1750	58.5	1458	26	2.32	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						19.34	5.90	889	403	LT
70	1842	58.5	1535	25	2.69	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						19.34	5.90	889	403	LT
70	2145	58.5	1788	21	3.73	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						19.34	5.90	889	403	LT
70	2625	58.5	2188	17	5.56	19.37	5.91	929	421	ST
						18.80	5.73	889	403	UT
						19.34	5.90	889	403	LT
80	635	66.5	529	80	0.28	21.60	6.59	1045	474	ST

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
80	635	66.5	529	80	0.28	21.19	6.46	1005	455	UT
						21.33	6.50	1005	455	CT
						21.97	6.70	1005	455	LT
80	860	66.5	717	60	0.48	21.60	6.59	1045	474	ST
						21.19	6.46	1005	455	UT
						21.33	6.50	1005	455	CT
						21.97	6.70	1005	455	LT
80	1085	66.5	904	46	0.76	21.60	6.59	1045	474	ST
						21.19	6.46	1005	455	UT
						21.33	6.50	1005	455	CT
						21.97	6.70	1005	455	LT
80	1310	66.5	1091	39	1.18	21.60	6.59	1045	474	ST
						21.19	6.46	1005	455	UT
						21.33	6.50	1005	455	CT
						21.97	6.70	1005	455	LT
80	2155	66.5	1796	24	3.92	21.60	6.59	1045	474	ST
						21.19	6.46	1005	455	UT
						21.97	6.70	1005	455	LT
90	710	75	591	81	0.31	24.00	7.32	1161	526	ST
						23.59	7.19	1121	508	UT
						23.72	7.23	1121	508	CT
						24.13	7.36	1121	508	LT
90	960	75	800	59	0.54	24.00	7.32	1161	526	ST
						23.59	7.19	1121	508	UT
						23.72	7.23	1121	508	CT
						24.13	7.36	1121	508	LT
90	1135	75	945	50	0.80	24.00	7.32	1161	526	ST
						23.59	7.19	1121	508	UT
						23.72	7.23	1121	508	CT
						24.13	7.36	1121	508	LT
90	1220	75	1017	46	0.86	24.00	7.32	1161	526	ST
						23.59	7.19	1121	508	UT
						23.72	7.23	1121	508	CT
						24.13	7.36	1121	508	LT
90	1460	75	1216	39	1.32	24.00	7.32	1161	526	ST
						23.59	7.19	1121	508	UT
						23.72	7.23	1121	508	CT
						24.13	7.36	1121	508	LT
90	1960	75	1635	29	2.22	24.00	7.32	1161	526	ST

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V							
90	1960	75	1635	29	2.22	23.59	7.19	1121	508	UT
						24.13	7.36	1121	508	LT
100	790	83.5	658	80	0.35	26.39	8.05	1277	579	ST
						25.98	7.92	1237	561	UT
						26.12	7.96	1237	561	CT
						26.76	8.16	1237	561	LT
100	920	83.5	767	70	0.48	26.39	8.05	1277	579	ST
						25.98	7.92	1237	561	UT
						26.12	7.96	1237	561	CT
						26.76	8.16	1237	561	LT
100	1075	83.5	895	59	0.60	26.39	8.05	1277	579	ST
						25.98	7.92	1237	561	UT
						26.12	7.96	1237	561	CT
						26.76	8.16	1237	561	LT
100	1355	83.5	1129	46	0.94	26.39	8.05	1277	579	ST
						25.98	7.92	1237	561	UT
						26.12	7.96	1237	561	CT
						26.76	8.16	1237	561	LT
100	2205	83.5	1837	29	2.48	26.39	8.05	1277	579	ST
						25.98	7.92	1237	561	UT
						26.76	8.16	1237	561	LT
110	1190	91.5	991	60	0.66	28.79	8.78	1393	631	ST
						28.38	8.65	1353	613	UT
						28.51	8.69	1353	613	CT
						28.92	8.82	1353	613	LT
110	1488	91.5	1240	46	1.04	28.79	8.78	1393	631	ST
						28.38	8.65	1353	613	UT
						28.51	8.69	1353	613	CT
						28.92	8.82	1353	613	LT
110	2380	91.5	1982	30	2.70	28.79	8.78	1393	631	ST
						28.38	8.65	1353	613	UT
						28.92	8.82	1353	613	LT
120	945	100	787	81	0.41	31.18	9.51	1501	680	ST
						30.77	9.38	1461	662	UT
						30.91	9.42	1461	662	CT
						31.32	9.55	1461	662	LT
120	1125	100	937	70	0.66	31.18	9.51	1501	680	ST
						30.77	9.38	1461	662	UT
						30.91	9.42	1461	662	CT

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
120	1125	100	937	70	0.66	31.32	9.55	1461	662	LT
120	1295	100	1079	59	0.72	31.18	9.51	1501	680	ST
						30.77	9.38	1461	662	UT
						30.91	9.42	1461	662	CT
						31.32	9.55	1461	662	LT
120	1626	100	1355	46	1.14	31.18	9.51	1501	680	ST
						30.77	9.38	1461	662	UT
						30.91	9.42	1461	662	CT
						31.32	9.55	1461	662	LT
120	2245	100	1870	35	2.56	31.18	9.51	1501	680	ST
						30.77	9.38	1461	662	UT
						31.32	9.55	1461	662	LT

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;
3. UT+UMB/CT+UMB: Installation length is UT/CT motor length plus 0.15m;
UT+SMB/CT+SMB: Installation length is UT/CT motor length plus 0.15m;
4. For ST, LT, UT+UMB, CT+UMB, UT+SMB and CT+SMB motors, the transport length needs to be added to 0.08m; for UT and CT Motors, the transport length needs to be added to 0.16m.

ME 456 SERIES MOTOR



ME 456 SERIES MOTOR

ME 456 Series Motor

Outside diameter	4.56in	Operational motor data at 60Hz and 100% load		
Minimum casing size	5.5in			
Shaft rating at 60Hz	480HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	400HP	100	77%	0.76

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
28	375	23.3	313	53	0.48	5.36	1.64	234	106	ST
						5.48	1.67	245	111	UT
28	485	23.3	404	40.5	0.77	5.36	1.64	234	106	ST
						5.48	1.67	245	111	UT
28	525	23.3	438	38	0.94	5.36	1.64	234	106	ST
						5.48	1.67	245	111	UT
42	325	35	271	90	0.23	6.81	2.08	320	145	ST
						6.92	2.11	331	150	UT
42	385	35	321	76.5	0.32	6.81	2.08	320	145	ST
						6.92	2.11	331	150	UT
42	500	35	417	59	0.51	6.81	2.08	320	145	ST
						6.92	2.11	331	150	UT
42	560	35	467	53	0.63	6.81	2.08	320	145	ST
						6.92	2.11	331	150	UT
42	730	35	608	40.5	1.03	6.81	2.08	320	145	ST
						6.92	2.11	331	150	UT
42	785	35	654	38	1.25	6.81	2.08	320	145	ST
						6.92	2.11	331	150	UT
56	435	46.7	363	90	0.29	8.25	2.52	393	178	ST
						8.37	2.55	404	183	UT
56	515	46.7	429	76.5	0.40	8.25	2.52	393	178	ST
						8.37	2.55	404	183	UT
56	670	46.7	558	59	0.64	8.25	2.52	393	178	ST
						8.37	2.55	404	183	UT
56	745	46.7	621	53	0.79	8.25	2.52	393	178	ST
						8.37	2.55	404	183	UT
56	970	46.7	808	40.5	1.28	8.25	2.52	393	178	ST
						8.37	2.55	404	183	UT
56	1050	46.7	875	38	1.57	8.25	2.52	393	178	ST
						8.37	2.55	404	183	UT
70	545	58.3	454	90	0.34	9.69	2.96	466	211	ST
						9.81	2.99	477	216	UT
70	645	58.3	538	76.5	0.48	9.69	2.96	466	211	ST

ME 456 SERIES MOTOR

ME 456 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
70	645	58.3	538	76.5	0.48	9.81	2.99	477	216	UT
70	835	58.3	696	59	0.77	9.69	2.96	466	211	ST
						9.81	2.99	477	216	UT
70	930	58.3	775	53	0.94	9.69	2.96	466	211	ST
						9.81	2.99	477	216	UT
70	1215	58.3	1013	40.5	1.54	9.69	2.96	466	211	ST
						9.81	2.99	477	216	UT
70	1310	58.3	1092	38	1.88	9.69	2.96	466	211	ST
						9.81	2.99	477	216	UT
84	655	70	546	90	0.40	11.14	3.40	538	244	ST
						11.25	3.43	549	249	UT
84	775	70	646	76.5	0.56	11.14	3.40	538	244	ST
						11.25	3.43	549	249	UT
84	1000	70	833	59	0.89	11.14	3.40	538	244	ST
						11.25	3.43	549	249	UT
84	1120	70	933	53	1.10	11.14	3.40	538	244	ST
						11.25	3.43	549	249	UT
84	1455	70	1213	40.5	1.79	11.14	3.40	538	244	ST
						11.25	3.43	549	249	UT
84	1575	70	1313	38	2.19	11.14	3.40	538	244	ST
						11.25	3.43	549	249	UT
98	765	81.7	638	90	0.45	12.58	3.84	611	277	ST
						12.70	3.87	622	282	UT
98	900	81.7	750	76.5	0.63	12.58	3.84	611	277	ST
						12.70	3.87	622	282	UT
98	1170	81.7	975	59	1.02	12.58	3.84	611	277	ST
						12.70	3.87	622	282	UT
98	1305	81.7	1088	53	1.25	12.58	3.84	611	277	ST
						12.70	3.87	622	282	UT
98	1700	81.7	1417	40.5	2.05	12.58	3.84	611	277	ST
						12.70	3.87	622	282	UT
98	1835	81.7	1529	38	2.50	12.58	3.84	611	277	ST
						12.70	3.87	622	282	UT
112	870	93.3	725	90	0.51	13.99	4.27	684	310	ST
						14.14	4.31	695	315	UT
112	1030	93.3	858	76.5	0.71	13.99	4.27	684	310	ST
						14.14	4.31	695	315	UT
112	1335	93.3	1113	59	1.14	13.99	4.27	684	310	ST
						14.14	4.31	695	315	UT

ME 456 SERIES MOTOR



ME 456 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V							
112	1490	93.3	1242	53	1.41	13.99	4.27	684	310	ST
						14.14	4.31	695	315	UT
112	1940	93.3	1617	40.5	2.30	13.99	4.27	684	310	ST
						14.14	4.31	695	315	UT
112	2095	93.3	1746	38	2.81	13.99	4.27	684	310	ST
						14.14	4.31	695	315	UT
126	980	105	817	90	0.56	15.44	4.71	757	343	ST
						15.58	4.75	768	348	UT
126	1160	105	967	76.5	0.79	15.44	4.71	757	343	ST
						15.58	4.75	768	348	UT
126	1500	105	1250	59	1.27	15.44	4.71	757	343	ST
						15.58	4.75	768	348	UT
126	1675	105	1396	53	1.56	15.44	4.71	757	343	ST
						15.58	4.75	768	348	UT
126	2185	105	1821	40.5	2.56	15.44	4.71	757	343	ST
						15.58	4.75	768	348	UT
126	2360	105	1967	38	3.12	15.44	4.71	757	343	ST
						15.58	4.75	768	348	UT
140	1090	116.7	908	90	0.62	16.88	5.15	830	376	ST
						17.03	5.19	841	381	UT
140	1290	116.7	1075	76.5	0.87	16.88	5.15	830	376	ST
						17.03	5.19	841	381	UT
140	1670	116.7	1392	59	1.39	16.88	5.15	830	376	ST
						17.03	5.19	841	381	UT
140	1865	116.7	1554	53	1.72	16.88	5.15	830	376	ST
						17.03	5.19	841	381	UT
140	2425	116.7	2021	40.5	2.81	16.88	5.15	830	376	ST
						17.03	5.19	841	381	UT
154	1200	128.3	1000	90	0.67	18.32	5.59	902	409	ST
						18.47	5.63	914	414	UT
						18.45	5.63	907	411	LT
154	1415	128.3	1179.2	76.5	0.94	18.32	5.59	902	409	ST
						18.47	5.63	914	414	UT
						18.45	5.63	907	411	LT
154	1835	128.3	1529	59	1.52	18.32	5.59	902	409	ST
						18.47	5.63	914	414	UT
						18.45	5.63	907	411	LT
154	2050	128.3	1708	53	1.87	18.32	5.59	902	409	ST
						18.47	5.63	914	414	UT

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ME 456 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
168	1310	140	1092	90	0.73	19.77	6.03	975	442	ST
						19.91	6.07	986	447	UT
						19.90	6.07	980	444	LT
168	1545	140	1288	76.5	1.02	19.77	6.03	975	442	ST
						19.91	6.07	986	447	UT
						19.90	6.07	980	444	LT
168	2005	140	1671	59	1.64	19.77	6.03	975	442	ST
						19.91	6.07	986	447	UT
168	2235	140	1863	53	2.03	19.77	6.03	975	442	ST
						19.91	6.07	986	447	UT
182	1415	151.7	1179	90	0.78	21.21	6.47	1048	475	ST
						21.36	6.51	1059	480	UT
						21.34	6.51	1053	477	LT
182	1675	151.7	1396	76.5	1.10	21.21	6.47	1048	475	ST
						21.36	6.51	1059	480	UT
						21.34	6.51	1053	477	LT
182	2170	151.7	1808	59	1.77	21.21	6.47	1048	475	ST
						21.36	6.51	1059	480	UT
196	1525	163.3	1271	90	0.84	22.65	6.91	1121	508	ST
						22.80	6.95	1132	513	UT
						22.79	6.95	1125	510	LT
196	1805	163.3	1504	76.5	1.18	22.65	6.91	1121	508	ST
						22.80	6.95	1132	513	UT
						22.79	6.95	1125	510	LT
210	1635	175	1363	90	0.89	24.10	7.35	1194	541	ST
						24.21	7.38	1205	546	UT
						24.23	7.39	1198	543	LT
210	1930	175	1608	76.5	1.25	24.10	7.35	1194	541	ST
						24.21	7.38	1205	546	UT
						24.23	7.39	1198	543	LT
224	1745	186.7	1454	90	0.95	25.54	7.79	1267	574	ST
						25.66	7.82	1278	579	UT
						25.67	7.83	1271	576	LT
224	2060	186.7	1717	76.5	1.33	25.54	7.79	1267	574	ST
						25.66	7.82	1278	579	UT
238	1855	198.3	1546	90	1.00	26.98	8.23	1339	607	ST
						27.10	8.26	1350	612	UT
						27.12	8.27	1344	609	LT
238	2190	198.3	1825	76.5	1.41	26.98	8.23	1339	607	ST

ME 456 SERIES MOTOR



60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power HP	Volts V	Power HP	Volts V			A	Ω	ft	m	
238	2190	198.3	1825	76.5	1.41	27.10	8.26	1350	612	UT
252	1960	210	1633	90	1.06	28.43	8.67	1412	640	ST
						28.54	8.70	1423	645	UT
						28.56	8.71	1417	642	LT
266	2070	221.7	1725	90	1.11	29.87	9.11	1485	673	ST
						29.99	9.14	1496	678	UT
280	2180	233.3	1817	90	1.17	31.32	9.55	1558	706	ST
						31.43	9.58	1569	711	UT

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;
3. UT+UMB: Installation length is UT motor length plus 0.15m;
UT+SMB: Installation length is UT motor length plus 0.15m;
4. For ST, LT, UT+UMB and UT+SMB motors, the transport length needs to be added to 0.08m;
for UT Motor, the transport length needs to be added to 0.16m.

SD 456/4 Series Motor

Outside diameter	4.56n	Operational motor data at 60Hz and 100% load		
Minimum casing size	5.5in			
Shaft rating at 60Hz	240HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	200HP	100	70%	0.69

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	kW	V	A	Ω					
20	380	12.5	320	45	0.41	9.73	2.97	460	208	ST
20	540	12.5	450	32	0.82	9.73	2.97	460	208	ST
20	850	12.5	710	20	2.07	9.73	2.97	460	208	ST
24	445	15	375	45	0.48	10.81	3.30	520	236	ST
24	625	15	520	32	0.94	10.81	3.30	520	236	ST
24	995	15	830	20	2.37	10.81	3.30	520	236	ST
28	515	17.5	430	45	0.54	11.99	3.66	578	262	ST
28	720	17.5	600	32	1.06	11.99	3.66	578	262	ST
28	1140	17.5	950	20	2.68	11.99	3.66	578	262	ST
32	580	19.5	485	45	0.60	13.17	4.02	638	289	ST
32	810	19.5	675	32	1.18	13.17	4.02	638	289	ST
32	1280	19.5	1070	20	2.98	13.17	4.02	638	289	ST
35	640	22	535	45	0.66	14.42	4.40	695	315	ST
35	900	22	750	32	1.30	14.42	4.40	695	315	ST
35	1420	22	1185	20	3.29	14.42	4.40	695	315	ST
39	700	24	585	45	0.72	15.60	4.76	755	342	ST
39	990	24	825	32	1.42	15.60	4.76	755	342	ST
39	1570	24	1310	20	3.59	15.60	4.76	755	342	ST
40	760	26.5	635	45	0.78	17.21	5.25	813	368	ST
40	1080	26.5	900	32	1.54	17.21	5.25	813	368	ST
45	825	29	690	45	0.84	18.42	5.62	873	396	ST
45	1170	29	975	32	1.66	18.42	5.62	873	396	ST
50	900	31	750	45	0.90	19.31	5.89	929	421	ST
50	1260	31	1050	32	1.78	19.31	5.89	929	421	ST
54	960	33.5	800	45	0.97	20.55	6.27	989	448	ST
54	1350	33.5	1125	32	1.91	20.55	6.27	989	448	ST
55	1015	35	850	45	1.03	21.60	6.59	1045	474	ST
55	1440	35	1200	32	2.03	21.60	6.59	1045	474	ST
60	1075	37.5	900	45	1.09	22.79	6.95	1105	501	ST
64	1150	40	960	45	1.15	24.00	7.32	1161	526	ST
67	1200	42	1000	45	1.21	25.18	7.68	1221	553	ST
70	1265	44.5	1055	45	1.27	26.39	8.05	1277	579	ST
74	1330	46	1110	45	1.33	27.58	8.41	1337	606	ST

SD 456/4 SERIES MOTOR



Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length, and the transport length needs to be added to 0.08m.

PMM 456/4 Series Motor

Outside diameter	4.56n	Operational motor data at 60Hz and 100% load		
Minimum casing size	5.5in			
Shaft rating at 60Hz	250HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	208HP	100	85%	0.87

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
9	250	7.50	208	21	1.28	4.22	1.29	199	90	UT+SMB
9	214	7.50	178	24	0.88	4.22	1.29	199	90	UT+SMB
9	179	7.50	149	29	0.66	4.22	1.29	199	90	UT+SMB
9	162	7.50	135	32	0.53	4.22	1.29	199	90	UT+SMB
9	143	7.50	119	36	0.42	4.22	1.29	199	90	UT+SMB
9	125	7.50	104	42	0.33	4.22	1.29	199	90	UT+SMB
9	108	7.50	90	49	0.26	4.22	1.29	199	90	UT+SMB
9	90	7.50	75	58	0.18	4.22	1.29	199	90	UT+SMB
18	499	14.99	416	21	1.95	5.69	1.74	265	120	UT+SMB
18	427	14.99	356	24	1.34	5.69	1.74	265	120	UT+SMB
18	360	14.99	300	29	0.99	5.69	1.74	265	120	UT+SMB
18	324	14.99	270	32	0.80	5.69	1.74	265	120	UT+SMB
18	286	14.99	238	36	0.63	5.69	1.74	265	120	UT+SMB
18	250	14.99	208	42	0.50	5.69	1.74	265	120	UT+SMB
18	216	14.99	180	49	0.38	5.69	1.74	265	120	UT+SMB
18	180	14.99	150	58	0.26	5.69	1.74	265	120	UT+SMB
27	749	22.49	624	21	2.62	7.14	2.18	331	150	UT+SMB
27	641	22.49	534	24	1.79	7.14	2.18	331	150	UT+SMB
27	540	22.49	450	29	1.33	7.14	2.18	331	150	UT+SMB
27	486	22.49	405	32	1.08	7.14	2.18	331	150	UT+SMB
27	428	22.49	357	36	0.85	7.14	2.18	331	150	UT+SMB
27	374	22.49	312	42	0.66	7.14	2.18	331	150	UT+SMB
27	324	22.49	270	49	0.51	7.14	2.18	331	150	UT+SMB
27	270	22.49	225	58	0.34	7.14	2.18	331	150	UT+SMB
36	998	29.99	832	21	3.29	8.61	2.63	397	180	UT+SMB
36	854	29.99	712	24	2.25	8.61	2.63	397	180	UT+SMB
36	720	29.99	600	29	1.66	8.61	2.63	397	180	UT+SMB
36	648	29.99	540	32	1.35	8.61	2.63	397	180	UT+SMB
36	571	29.99	476	36	1.06	8.61	2.63	397	180	UT+SMB
36	499	29.99	416	42	0.83	8.61	2.63	397	180	UT+SMB
36	432	29.99	360	49	0.64	8.61	2.63	397	180	UT+SMB
36	360	29.99	300	58	0.43	8.61	2.63	397	180	UT+SMB
45	1248	37.48	1040	21	3.96	10.09	3.08	463	210	UT+SMB

PMM 456 SERIES MOTOR



PMM 456/4 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
45	1068	37.48	890	24	2.70	10.09	3.08	463	210	UT+SMB
45	900	37.48	750	29	2.00	10.09	3.08	463	210	UT+SMB
45	810	37.48	675	32	1.62	10.09	3.08	463	210	UT+SMB
45	714	37.48	595	36	1.27	10.09	3.08	463	210	UT+SMB
45	624	37.48	520	42	0.99	10.09	3.08	463	210	UT+SMB
45	540	37.48	450	49	0.76	10.09	3.08	463	210	UT+SMB
45	450	37.48	375	58	0.51	10.09	3.08	463	210	UT+SMB
54	1498	44.98	1248	21	4.63	11.53	3.52	530	240	UT+SMB
54	1282	44.98	1068	24	3.16	11.53	3.52	530	240	UT+SMB
54	1080	44.98	900	29	2.33	11.53	3.52	530	240	UT+SMB
54	972	44.98	810	32	1.89	11.53	3.52	530	240	UT+SMB
54	857	44.98	714	36	1.48	11.53	3.52	530	240	UT+SMB
54	749	44.98	624	42	1.15	11.53	3.52	530	240	UT+SMB
54	648	44.98	540	49	0.89	11.53	3.52	530	240	UT+SMB
54	540	44.98	450	58	0.60	11.53	3.52	530	240	UT+SMB
63	1747	52.47	1456	21	5.30	13.01	3.97	596	270	UT+SMB
63	1495	52.47	1246	24	3.62	13.01	3.97	596	270	UT+SMB
63	1260	52.47	1050	29	2.67	13.01	3.97	596	270	UT+SMB
63	1134	52.47	945	32	2.16	13.01	3.97	596	270	UT+SMB
63	1000	52.47	833	36	1.69	13.01	3.97	596	270	UT+SMB
63	874	52.47	728	42	1.32	13.01	3.97	596	270	UT+SMB
63	756	52.47	630	49	1.01	13.01	3.97	596	270	UT+SMB
63	630	52.47	525	58	0.68	13.01	3.97	596	270	UT+SMB
72	1997	59.97	1664	21	5.96	14.48	4.42	662	300	UT+SMB
72	1709	59.97	1424	24	4.07	14.48	4.42	662	300	UT+SMB
72	1440	59.97	1200	29	3.00	14.48	4.42	662	300	UT+SMB
72	1296	59.97	1080	32	2.43	14.48	4.42	662	300	UT+SMB
72	1142	59.97	952	36	1.91	14.48	4.42	662	300	UT+SMB
72	998	59.97	832	42	1.48	14.48	4.42	662	300	UT+SMB
72	864	59.97	720	49	1.14	14.48	4.42	662	300	UT+SMB
72	720	59.97	600	58	0.77	14.48	4.42	662	300	UT+SMB
81	2246	67.47	1872	21	6.63	15.93	4.86	728	330	UT+SMB
81	1922	67.47	1602	24	4.53	15.93	4.86	728	330	UT+SMB
81	1620	67.47	1350	29	3.34	15.93	4.86	728	330	UT+SMB
81	1458	67.47	1215	32	2.70	15.93	4.86	728	330	UT+SMB
81	1285	67.47	1071	36	2.12	15.93	4.86	728	330	UT+SMB
81	1123	67.47	936	42	1.65	15.93	4.86	728	330	UT+SMB
81	972	67.47	810	49	1.27	15.93	4.86	728	330	UT+SMB
81	810	67.47	675	58	0.85	15.93	4.86	728	330	UT+SMB

PMM 456 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
90	2136	74.96	1780	24	4.98	17.40	5.31	794	360	UT+SMB
90	1800	74.96	1500	29	3.68	17.40	5.31	794	360	UT+SMB
90	1620	74.96	1350	32	2.97	17.40	5.31	794	360	UT+SMB
90	1428	74.96	1190	36	2.33	17.40	5.31	794	360	UT+SMB
90	1248	74.96	1040	42	1.81	17.40	5.31	794	360	UT+SMB
90	1080	74.96	900	49	1.39	17.40	5.31	794	360	UT+SMB
90	900	74.96	750	58	0.93	17.40	5.31	794	360	UT+SMB
99	1980	82.46	1650	29	4.01	18.88	5.76	861	390	UT+SMB
99	1782	82.46	1485	32	3.24	18.88	5.76	861	390	UT+SMB
99	1571	82.46	1309	36	2.54	18.88	5.76	861	390	UT+SMB
99	1373	82.46	1144	42	1.98	18.88	5.76	861	390	UT+SMB
99	1188	82.46	990	49	1.52	18.88	5.76	861	390	UT+SMB
99	990	82.46	825	58	1.02	18.88	5.76	861	390	UT+SMB
108	2160	89.96	1800	29	4.35	20.36	6.21	927	420	UT+SMB
108	1944	89.96	1620	32	3.52	20.36	6.21	927	420	UT+SMB
108	1714	89.96	1428	36	2.76	20.36	6.21	927	420	UT+SMB
108	1498	89.96	1248	42	2.14	20.36	6.21	927	420	UT+SMB
108	1296	89.96	1080	49	1.64	20.36	6.21	927	420	UT+SMB
108	1080	89.96	900	58	1.10	20.36	6.21	927	420	UT+SMB
117	2340	97.45	1950	29	4.68	21.80	6.65	993	450	UT+SMB
117	2106	97.45	1755	32	3.79	21.80	6.65	993	450	UT+SMB
117	1856	97.45	1547	36	2.97	21.80	6.65	993	450	UT+SMB
117	1622	97.45	1352	42	2.31	21.80	6.65	993	450	UT+SMB
117	1404	97.45	1170	49	1.77	21.80	6.65	993	450	UT+SMB
117	1170	97.45	975	58	1.19	21.80	6.65	993	450	UT+SMB
126	2268	104.95	1890	32	4.06	23.28	7.10	1059	480	UT+SMB
126	1999	104.95	1666	36	3.18	23.28	7.10	1059	480	UT+SMB
126	1747	104.95	1456	42	2.47	23.28	7.10	1059	480	UT+SMB
126	1512	104.95	1260	49	1.90	23.28	7.10	1059	480	UT+SMB
126	1260	104.95	1050	58	1.27	23.28	7.10	1059	480	UT+SMB
135	2142	112.44	1785	36	3.39	24.75	7.55	1125	510	UT+SMB
135	1872	112.44	1560	42	2.64	24.75	7.55	1125	510	UT+SMB
135	1620	112.44	1350	49	2.02	24.75	7.55	1125	510	UT+SMB
135	1350	112.44	1125	58	1.35	24.75	7.55	1125	510	UT+SMB
144	2285	119.94	1904	36	3.60	26.20	7.99	1192	540	UT+SMB
144	1997	119.94	1664	42	2.80	26.20	7.99	1192	540	UT+SMB
144	1728	119.94	1440	49	2.15	26.20	7.99	1192	540	UT+SMB
144	1440	119.94	1200	58	1.44	26.20	7.99	1192	540	UT+SMB
153	2122	127.44	1768	42	2.97	27.67	8.44	1258	570	UT+SMB

PMM 456 SERIES MOTOR



60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
153	1836	127.44	1530	49	2.27	27.67	8.44	1258	570	UT+SMB
153	1530	127.44	1275	58	1.52	27.67	8.44	1258	570	UT+SMB
162	2246	134.93	1872	42	3.13	29.15	8.89	1324	600	UT+SMB
162	1944	134.93	1620	49	2.40	29.15	8.89	1324	600	UT+SMB
162	1620	134.93	1350	58	1.61	29.15	8.89	1324	600	UT+SMB
171	2371	142.43	1976	42	3.30	30.59	9.33	1390	630	UT+SMB
171	2052	142.43	1710	49	2.53	30.59	9.33	1390	630	UT+SMB
171	1710	142.43	1425	58	1.69	30.59	9.33	1390	630	UT+SMB
180	2160	149.93	1800	49	2.65	32.07	9.78	1456	660	UT+SMB
180	1800	149.93	1500	58	1.78	32.07	9.78	1456	660	UT+SMB

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length, and the transport length needs to be added to 0.09m.

PMM 456 Series Motor

Outside diameter	4.56n	Operational motor data at 60Hz and 100% load		
Minimum casing size	5.5in			
Shaft rating at 60Hz	100HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	83HP	100	81%	0.82

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
10	254	8.31	212	26	1.32	5.69	1.74	265	120	UT+SMB
15	382	12.47	318	26	1.77	7.14	2.18	331	150	UT+SMB
15	342	12.47	285	29	1.42	7.14	2.18	331	150	UT+SMB
15	295	12.47	246	33	0.97	7.14	2.18	331	150	UT+SMB
15	256	12.47	213	38	0.75	7.14	2.18	331	150	UT+SMB
15	234	12.47	195	42	0.62	7.14	2.18	331	150	UT+SMB
20	509	16.63	424	26	2.23	8.61	2.63	397	180	UT+SMB
20	456	16.63	380	29	1.78	8.61	2.63	397	180	UT+SMB
20	394	16.63	328	33	1.22	8.61	2.63	397	180	UT+SMB
20	341	16.63	284	38	0.94	8.61	2.63	397	180	UT+SMB
20	312	16.63	260	42	0.78	8.61	2.63	397	180	UT+SMB
20	254	16.63	212	51	0.51	8.61	2.63	397	180	UT+SMB
20	226	16.63	188	57	0.40	8.61	2.63	397	180	UT+SMB
25	636	20.79	530	26	2.68	10.09	3.08	463	210	UT+SMB
25	570	20.79	475	29	2.14	10.09	3.08	463	210	UT+SMB
25	492	20.79	410	33	1.47	10.09	3.08	463	210	UT+SMB
25	426	20.79	355	38	1.13	10.09	3.08	463	210	UT+SMB
25	390	20.79	325	42	0.93	10.09	3.08	463	210	UT+SMB
25	318	20.79	265	51	0.61	10.09	3.08	463	210	UT+SMB
25	282	20.79	235	57	0.48	10.09	3.08	463	210	UT+SMB
30	763	24.94	636	26	3.13	11.53	3.52	530	240	UT+SMB
30	684	24.94	570	29	2.50	11.53	3.52	530	240	UT+SMB
30	590	24.94	492	33	1.72	11.53	3.52	530	240	UT+SMB
30	511	24.94	426	38	1.32	11.53	3.52	530	240	UT+SMB
30	468	24.94	390	42	1.09	11.53	3.52	530	240	UT+SMB
30	382	24.94	318	51	0.71	11.53	3.52	530	240	UT+SMB
30	338	24.94	282	57	0.56	11.53	3.52	530	240	UT+SMB
35	890	29.10	742	26	3.59	13.01	3.97	596	270	UT+SMB
35	798	29.10	665	29	2.87	13.01	3.97	596	270	UT+SMB
35	689	29.10	574	33	1.96	13.01	3.97	596	270	UT+SMB
35	596	29.10	497	38	1.51	13.01	3.97	596	270	UT+SMB
35	546	29.10	455	42	1.24	13.01	3.97	596	270	UT+SMB
35	445	29.10	371	51	0.81	13.01	3.97	596	270	UT+SMB

PMM 456 SERIES MOTOR



PMM 456/4 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
35	395	29.10	329	57	0.64	13.01	3.97	596	270	UT+SMB
40	1018	33.26	848	26	4.04	14.48	4.42	662	300	UT+SMB
40	912	33.26	760	29	3.23	14.48	4.42	662	300	UT+SMB
40	787	33.26	656	33	2.21	14.48	4.42	662	300	UT+SMB
40	682	33.26	568	38	1.70	14.48	4.42	662	300	UT+SMB
40	624	33.26	520	42	1.40	14.48	4.42	662	300	UT+SMB
40	509	33.26	424	51	0.91	14.48	4.42	662	300	UT+SMB
40	451	33.26	376	57	0.72	14.48	4.42	662	300	UT+SMB
45	1145	37.41	954	26	4.49	15.93	4.86	728	330	UT+SMB
45	1026	37.41	855	29	3.59	15.93	4.86	728	330	UT+SMB
45	886	37.41	738	33	2.46	15.93	4.86	728	330	UT+SMB
45	767	37.41	639	38	1.88	15.93	4.86	728	330	UT+SMB
45	702	37.41	585	42	1.55	15.93	4.86	728	330	UT+SMB
45	572	37.41	477	51	1.02	15.93	4.86	728	330	UT+SMB
45	508	37.41	423	57	0.80	15.93	4.86	728	330	UT+SMB
50	1272	41.57	1060	26	4.95	17.40	5.31	794	360	UT+SMB
50	1140	41.57	950	29	3.95	17.40	5.31	794	360	UT+SMB
50	984	41.57	820	33	2.70	17.40	5.31	794	360	UT+SMB
50	852	41.57	710	38	2.07	17.40	5.31	794	360	UT+SMB
50	780	41.57	650	42	1.71	17.40	5.31	794	360	UT+SMB
50	636	41.57	530	51	1.12	17.40	5.31	794	360	UT+SMB
50	564	41.57	470	57	0.88	17.40	5.31	794	360	UT+SMB
55	1399	45.73	1166	26	5.40	18.88	5.76	861	390	UT+SMB
55	1254	45.73	1045	29	4.31	18.88	5.76	861	390	UT+SMB
55	1082	45.73	902	33	2.95	18.88	5.76	861	390	UT+SMB
55	937	45.73	781	38	2.26	18.88	5.76	861	390	UT+SMB
55	858	45.73	715	42	1.87	18.88	5.76	861	390	UT+SMB
55	700	45.73	583	51	1.22	18.88	5.76	861	390	UT+SMB
55	620	45.73	517	57	0.96	18.88	5.76	861	390	UT+SMB
60	1526	49.89	1272	26	5.85	20.36	6.21	927	420	UT+SMB
60	1368	49.89	1140	29	4.67	20.36	6.21	927	420	UT+SMB
60	1181	49.89	984	33	3.20	20.36	6.21	927	420	UT+SMB
60	1022	49.89	852	38	2.45	20.36	6.21	927	420	UT+SMB
60	936	49.89	780	42	2.02	20.36	6.21	927	420	UT+SMB
60	763	49.89	636	51	1.32	20.36	6.21	927	420	UT+SMB
60	677	49.89	564	57	1.04	20.36	6.21	927	420	UT+SMB
65	1654	54.04	1378	26	6.31	21.80	6.65	993	450	UT+SMB
65	1482	54.04	1235	29	5.03	21.80	6.65	993	450	UT+SMB
65	1279	54.04	1066	33	3.44	21.80	6.65	993	450	UT+SMB

PMM 456 SERIES MOTOR

PMM 456/4 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
65	1108	54.04	923	38	2.64	21.80	6.65	993	450	UT+SMB
65	1014	54.04	845	42	2.18	21.80	6.65	993	450	UT+SMB
65	827	54.04	689	51	1.42	21.80	6.65	993	450	UT+SMB
65	733	54.04	611	57	1.12	21.80	6.65	993	450	UT+SMB
70	1781	58.20	1484	26	6.76	23.28	7.10	1059	480	UT+SMB
70	1596	58.20	1330	29	5.40	23.28	7.10	1059	480	UT+SMB
70	1378	58.20	1148	33	3.69	23.28	7.10	1059	480	UT+SMB
70	1193	58.20	994	38	2.83	23.28	7.10	1059	480	UT+SMB
70	1092	58.20	910	42	2.33	23.28	7.10	1059	480	UT+SMB
70	890	58.20	742	51	1.52	23.28	7.10	1059	480	UT+SMB
70	790	58.20	658	57	1.20	23.28	7.10	1059	480	UT+SMB
75	1908	62.36	1590	26	7.21	24.75	7.55	1125	510	UT+SMB
75	1710	62.36	1425	29	5.76	24.75	7.55	1125	510	UT+SMB
75	1476	62.36	1230	33	3.94	24.75	7.55	1125	510	UT+SMB
75	1278	62.36	1065	38	3.02	24.75	7.55	1125	510	UT+SMB
75	1170	62.36	975	42	2.49	24.75	7.55	1125	510	UT+SMB
75	954	62.36	795	51	1.62	24.75	7.55	1125	510	UT+SMB
75	846	62.36	705	57	1.28	24.75	7.55	1125	510	UT+SMB
80	2035	66.51	1696	26	7.66	26.20	7.99	1192	540	UT+SMB
80	1824	66.51	1520	29	6.12	26.20	7.99	1192	540	UT+SMB
80	1574	66.51	1312	33	4.19	26.20	7.99	1192	540	UT+SMB
80	1363	66.51	1136	38	3.21	26.20	7.99	1192	540	UT+SMB
80	1248	66.51	1040	42	2.64	26.20	7.99	1192	540	UT+SMB
80	1018	66.51	848	51	1.72	26.20	7.99	1192	540	UT+SMB
80	902	66.51	752	57	1.36	26.20	7.99	1192	540	UT+SMB
85	2162	70.67	1802	26	8.12	26.20	7.99	1192	540	UT+SMB
85	1938	70.67	1615	29	6.48	27.67	8.44	1258	570	UT+SMB
85	1673	70.67	1394	33	4.43	27.67	8.44	1258	570	UT+SMB
85	1448	70.67	1207	38	3.40	27.67	8.44	1258	570	UT+SMB
85	1326	70.67	1105	42	2.80	27.67	8.44	1258	570	UT+SMB
85	1081	70.67	901	51	1.83	27.67	8.44	1258	570	UT+SMB
85	959	70.67	799	57	1.44	27.67	8.44	1258	570	UT+SMB
90	2290	74.83	1908	26	8.57	29.15	8.89	1324	600	UT+SMB
90	2052	74.83	1710	29	6.84	29.15	8.89	1324	600	UT+SMB
90	1771	74.83	1476	33	4.68	29.15	8.89	1324	600	UT+SMB
90	1534	74.83	1278	38	3.59	29.15	8.89	1324	600	UT+SMB
90	1404	74.83	1170	42	2.96	29.15	8.89	1324	600	UT+SMB
90	1145	74.83	954	51	1.93	29.15	8.89	1324	600	UT+SMB
90	1015	74.83	846	57	1.52	29.15	8.89	1324	600	UT+SMB

PMM 456 SERIES MOTOR



60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
95	2166	78.99	1805	29	7.20	30.59	9.33	1390	630	UT+SMB
95	1870	78.99	1558	33	4.93	30.59	9.33	1390	630	UT+SMB
95	1619	78.99	1349	38	3.78	30.59	9.33	1390	630	UT+SMB
95	1482	78.99	1235	42	3.11	30.59	9.33	1390	630	UT+SMB
95	1208	78.99	1007	51	2.03	30.59	9.33	1390	630	UT+SMB
95	1072	78.99	893	57	1.60	30.59	9.33	1456	660	UT+SMB
100	2280	83.14	1900	29	7.56	32.07	9.78	1390	630	UT+SMB
100	1968	83.14	1640	33	5.17	32.07	9.78	1390	630	UT+SMB
100	1704	83.14	1420	38	3.96	32.07	9.78	1390	630	UT+SMB
100	1560	83.14	1300	42	3.27	32.07	9.78	1390	630	UT+SMB
100	1272	83.14	1060	51	2.13	32.07	9.78	1390	630	UT+SMB
100	1128	83.14	940	57	1.68	32.07	9.78	1390	630	UT+SMB

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length, and the transport length needs to be added to 0.09m.

SD 540 Series Motor

Outside diameter	5.40in	Operational motor data at 60Hz and 100% load		
Minimum casing size	6.625in			
Shaft rating at 60Hz	850HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	708HP	100	80%	0.85

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
20	440	16.5	367	29	0.52	5.30	1.62	300	136	ST
						4.82	1.47	260	118	UT
20	755	16.5	629	17	1.38	5.30	1.62	300	136	ST
						4.82	1.47	260	118	UT
30	435	25	362	45	0.30	6.68	2.04	391	177	ST
						6.20	1.89	351	159	UT
30	710	25	591	28	0.80	6.68	2.04	391	177	ST
						6.20	1.89	351	159	UT
30	1215	25	1013	16	2.68	6.68	2.04	391	177	ST
						6.20	1.89	351	159	UT
40	435	33.5	362	60	0.22	8.05	2.46	483	219	ST
						7.58	2.31	444	201	UT
40	660	33.5	550	40	0.56	8.05	2.46	483	219	ST
						7.58	2.31	444	201	UT
40	730	33.5	608	36	0.62	8.05	2.46	483	219	ST
						7.58	2.31	444	201	UT
40	880	33.5	733	30	0.96	8.05	2.46	483	219	ST
						7.58	2.31	444	201	UT
40	1325	33.5	1104	20	2.30	8.05	2.46	483	219	ST
						7.58	2.31	444	201	UT
50	450	41.5	375	72	0.18	9.43	2.88	576	261	ST
						8.96	2.73	536	243	UT
50	725	41.5	604	45	0.48	9.43	2.88	576	261	ST
						8.96	2.73	536	243	UT
50	905	41.5	754	34	0.76	9.43	2.88	576	261	ST
						8.96	2.73	536	243	UT
50	1270	41.5	1058	25	1.39	9.43	2.88	576	261	ST
						8.96	2.73	536	243	UT
50	1375	41.5	1146	22	1.84	9.43	2.88	576	261	ST
						8.96	2.73	536	243	UT
50	1590	41.5	1325	20	2.76	9.43	2.88	576	261	ST
						8.96	2.73	536	243	UT
60	425	50	354	91	0.13	10.78	3.29	680	308	ST

SD 540 SERIES MOTOR



SD 540 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
60	425	50	354	91	0.13	10.30	3.14	640	290	UT
60	460	50	383	82	0.18	10.78	3.29	680	308	ST
						10.30	3.14	640	290	UT
60	645	50	538	60	0.32	10.78	3.29	680	308	ST
						10.30	3.14	640	290	UT
60	870	50	725	45	0.56	10.78	3.29	680	308	ST
						10.30	3.14	640	290	UT
60	970	50	808	40	0.80	10.78	3.29	680	308	ST
						10.30	3.14	640	290	UT
60	1085	50	904	35	0.90	10.78	3.29	680	308	ST
						10.30	3.14	640	290	UT
60	1196	50	997	31	1.08	10.78	3.29	680	308	ST
						10.30	3.14	640	290	UT
60	1320	50	1100	30	1.36	10.78	3.29	680	308	ST
						10.30	3.14	640	290	UT
70	755	58.5	629	60	0.38	12.16	3.71	772	350	ST
						11.68	3.56	730	331	UT
70	1015	58.5	845	45	0.64	12.16	3.71	772	350	ST
						11.68	3.56	730	331	UT
70	1265	58.5	1054	35	1.02	12.16	3.71	772	350	ST
						11.68	3.56	730	331	UT
70	1545	58.5	1287	30	1.56	12.16	3.71	772	350	ST
						11.68	3.56	730	331	UT
80	865	66.5	721	60	0.42	13.53	4.13	863	391	ST
						13.06	3.98	823	373	UT
80	1160	66.5	966	45	0.74	13.53	4.13	863	391	ST
						13.06	3.98	823	373	UT
80	1310	66.5	1090	38	1.02	13.53	4.13	863	391	ST
						13.06	3.98	823	373	UT
80	2180	66.5	1817	23	2.84	13.53	4.13	863	391	ST
						13.06	3.98	823	373	UT
90	755	75	629	76	0.30	14.91	4.55	953	432	ST
						14.44	4.40	916	415	UT
90	965	75	804	60	0.47	14.91	4.55	953	432	ST
						14.44	4.40	916	415	UT
90	1300	75	1083	45	0.80	14.91	4.55	953	432	ST
						14.44	4.40	916	415	UT
90	1630	75	1360	34	1.34	14.91	4.55	953	432	ST
						14.44	4.40	916	415	UT

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
90	1980	75	1650	30	2.00	14.91	4.55	953	432	ST
						14.44	4.40	916	415	UT
100	710	83.5	591	89	0.22	16.26	4.96	1048	475	ST
						15.78	4.81	1008	457	UT
100	835	83.5	696	76	0.32	16.26	4.96	1048	475	ST
						15.78	4.81	1008	457	UT
100	1070	83.5	891	60	0.52	16.26	4.96	1048	475	ST
						15.78	4.81	1008	457	UT
100	1450	83.5	1208	44	0.90	16.26	4.96	1048	475	ST
						15.78	4.81	1008	457	UT
100	1812	83.5	1510	33	1.40	16.26	4.96	1048	475	ST
						15.78	4.81	1008	457	UT
100	2170	83.5	1808	29	2.18	16.26	4.96	1048	475	ST
						15.78	4.81	1008	457	UT
110	920	91.5	767	76	0.39	17.63	5.38	1139	516	ST
						17.16	5.23	1108	502	UT
110	1180	91.5	983	59	0.57	17.63	5.38	1139	516	ST
						17.16	5.23	1108	502	UT
110	1545	91.5	1288	45	1.00	17.63	5.38	1139	516	ST
						17.16	5.23	1108	502	UT
110	1985	91.5	1663	35	1.58	17.63	5.38	1139	516	ST
						17.16	5.23	1108	502	UT
110	2390	91.5	1992	29	2.30	17.63	5.38	1139	516	ST
						17.16	5.23	1108	502	UT
120	855	100	712	88	0.26	19.01	5.80	1233	559	ST
						18.54	5.65	1196	542	UT
						18.80	5.73	1196	542	CT
						19.31	5.89	1196	542	LT
120	1030	100	858	73	0.52	19.01	5.80	1233	559	ST
						18.54	5.65	1196	542	UT
						18.80	5.73	1196	542	CT
						19.31	5.89	1196	542	LT
120	1295	100	1079	59	0.62	19.01	5.80	1233	559	ST
						18.54	5.65	1196	542	UT
						18.80	5.73	1196	542	CT
						19.31	5.89	1196	542	LT
120	1740	100	1450	44	1.08	19.01	5.80	1233	559	ST
						18.54	5.65	1196	542	UT
						19.31	5.89	1196	542	LT

SD 540 SERIES MOTOR



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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
120	2040	100	1700	37	1.86	19.01	5.80	1233	559	ST
						18.54	5.65	1196	542	UT
						19.31	5.89	1196	542	LT
120	2165	100	1803	33	1.70	19.01	5.80	1233	559	ST
						18.54	5.65	1196	542	UT
						19.31	5.89	1196	542	LT
130	925	108	770	88	0.28	20.39	6.22	1328	602	ST
						19.91	6.07	1289	584	UT
						20.14	6.14	1289	584	CT
						20.69	6.31	1289	584	LT
130	1125	108	938	67	0.56	20.39	6.22	1328	602	ST
						19.91	6.07	1289	584	UT
						20.14	6.14	1289	584	CT
						20.69	6.31	1289	584	LT
130	1400	108	1165	59	0.70	20.39	6.22	1328	602	ST
						19.91	6.07	1289	584	UT
						20.14	6.14	1289	584	CT
						20.69	6.31	1289	584	LT
130	1895	108	1580	44	1.16	20.39	6.22	1328	602	ST
						19.91	6.07	1289	584	UT
						20.69	6.31	1289	584	LT
130	2345	108	1954	33	2.00	20.39	6.22	1328	602	ST
						19.91	6.07	1289	584	UT
						20.69	6.31	1289	584	LT
140	1000	117	821	90	0.30	21.74	6.63	1419	643	ST
						21.26	6.48	1388	629	UT
140	1170	117	975	76	0.49	21.74	6.63	1419	643	ST
						21.26	6.48	1388	629	UT
140	1510	117	1258	59	0.73	21.74	6.63	1419	643	ST
						21.26	6.48	1388	629	UT
140	2040	117	1640	45	1.26	21.74	6.63	1419	643	ST
						21.26	6.48	1388	629	UT
140	2525	117	2104	35	2.00	21.74	6.63	1419	643	ST
						21.26	6.48	1388	629	UT
150	1075	125	895	87	0.32	23.11	7.05	1516	687	ST
						22.64	6.90	1474	668	UT
						22.90	6.98	1474	668	CT
						23.41	7.14	1474	668	LT
150	1620	125	1350	59	0.78	23.11	7.05	1516	687	ST

SD 540 SERIES MOTOR

SD 540 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V							
150	1620	125	1350	59	0.78	22.64	6.90	1474	668	UT
						22.90	6.98	1474	668	CT
						23.41	7.14	1474	668	LT
150	1790	125	1492	50	1.01	23.11	7.05	1516	687	ST
						22.64	6.90	1474	668	UT
						23.41	7.14	1474	668	LT
150	2050	125	1708	44	1.30	23.11	7.05	1516	687	ST
						22.64	6.90	1474	668	UT
						23.41	7.14	1474	668	LT
150	2105	125	1755	44	1.32	23.11	7.05	1516	687	ST
						22.64	6.90	1474	668	UT
						23.41	7.14	1474	668	LT
160	825	133	687	122	0.20	24.49	7.47	1624	736	ST
						24.02	7.32	1582	717	UT
						24.28	7.40	1582	717	CT
						24.79	7.56	1582	717	LT
160	1115	133	929	88.5	0.34	24.49	7.47	1624	736	ST
						24.02	7.32	1582	717	UT
						24.28	7.40	1582	717	CT
						24.79	7.56	1582	717	LT
160	1385	133	1154	73	0.56	24.49	7.47	1624	736	ST
						24.02	7.32	1582	717	UT
						24.28	7.40	1582	717	CT
						24.79	7.56	1582	717	LT
160	1425	133	1186	71	0.55	24.49	7.47	1624	736	ST
						24.02	7.32	1582	717	UT
						24.28	7.40	1582	717	CT
						24.79	7.56	1582	717	LT
160	1645	133	1371	58	0.82	24.49	7.47	1624	736	ST
						24.02	7.32	1582	717	UT
						24.28	7.40	1582	717	CT
						24.79	7.56	1582	717	LT
160	1910	133	1592	50	1.07	24.49	7.47	1624	736	ST
						24.02	7.32	1582	717	UT
						24.79	7.56	1582	717	LT
160	2185	133	1820	46	1.42	24.49	7.47	1624	736	ST
						24.02	7.32	1582	717	UT
						24.79	7.56	1582	717	LT
170	880	141.5	733	120	0.22	25.87	7.89	1730	784	ST

SD 540 SERIES MOTOR



SD 540 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V							
170	880	141.5	733	120	0.22	25.39	7.74	1690	766	UT
170	1210	141.5	1008	88	0.37	25.87	7.89	1730	784	ST
						25.39	7.74	1690	766	UT
170	1840	141.5	1533	59	0.86	25.87	7.89	1730	784	ST
						25.39	7.74	1690	766	UT
170	2390	141.5	1992	44	1.46	25.87	7.89	1730	784	ST
						25.39	7.74	1690	766	UT
180	945	150	787	120	0.22	27.21	8.30	1836	832	ST
						26.74	8.15	1796	814	UT
						27.00	8.23	1796	814	CT
						27.51	8.39	1796	814	LT
180	1275	150	1062	89	0.39	27.21	8.30	1836	832	ST
						26.74	8.15	1796	814	UT
						27.00	8.23	1796	814	CT
						27.51	8.39	1796	814	LT
180	1600	150	1334	71	0.62	27.21	8.30	1836	832	ST
						26.74	8.15	1796	814	UT
						27.00	8.23	1796	814	CT
						27.51	8.39	1796	814	LT
180	1945	150	1620	59	0.94	27.21	8.30	1836	832	ST
						26.74	8.15	1796	814	UT
						27.51	8.39	1796	814	LT
180	2260	150	1884	50	1.22	27.21	8.30	1836	832	ST
						26.74	8.15	1796	814	UT
						27.51	8.39	1796	814	LT
180	2470	150	2058	43.7	1.55	27.21	8.30	1836	832	ST
						26.74	8.15	1796	814	UT
						27.51	8.39	1796	814	LT
190	1000	158	833	120	0.24	28.59	8.72	1928	874	ST
						28.15	8.58	1889	856	UT
190	1345	158	1121	89	0.41	28.59	8.72	1928	874	ST
						28.15	8.58	1889	856	UT
190	2055	158	1713	59	0.96	28.59	8.72	1928	874	ST
						28.15	8.58	1889	856	UT
190	2595	158	2163	46	1.63	28.59	8.72	1928	874	ST
						28.15	8.58	1889	856	UT
200	1100	167	917	115	0.25	29.97	9.14	2021	916	ST
						29.49	8.99	1981	898	UT
						29.76	9.07	1981	898	CT

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
200	1100	167	917	115	0.25	30.27	9.23	1981	898	LT
200	1415	167	1183	90	0.43	29.97	9.14	2021	916	ST
						29.49	8.99	1981	898	UT
						29.76	9.07	1981	898	CT
						30.27	9.23	1981	898	LT
200	2140	167	1783	54	1.04	29.97	9.14	2021	916	ST
						29.49	8.99	1981	898	UT
						30.27	9.23	1981	898	LT
200	2805	167	2340	44	1.78	29.97	9.14	2021	916	ST
						29.49	8.99	1981	898	UT
						30.27	9.23	1981	898	LT
224	1130	187	945	127	0.25	29.97	9.14	2021	916	ST
						29.49	8.99	1981	898	UT
						29.76	9.07	1981	898	CT
						30.27	9.23	1981	898	LT
224	1470	187	1225	97	0.43	29.97	9.14	2021	916	ST
						29.49	8.99	1981	898	UT
						29.76	9.07	1981	898	CT
						30.27	9.23	1981	898	LT
224	2235	187	1862	64	1.04	29.97	9.14	2021	916	ST
						29.49	8.99	1981	898	UT
						30.27	9.23	1981	898	LT

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;
3. UT+UMB/CT+UMB: Installation length is UT/CT motor length plus 0.15m;
UT+SMB/CT+SMB: Installation length is UT/CT motor length plus 0.16m;
4. For ST, LT, UT+UMB, CT+UMB, UT+SMB and CT+SMB motors, the transport length needs to be added to 0.08m; for UT and CT Motors, the transport length needs to be added to 0.15m.

SD 540 SERIES MOTOR



SD 540 SERIES MOTOR

SD 540 Series Motor

Outside diameter	5.40in	Operational motor data at 60Hz and 100% load		
Minimum casing size	6.625in			
Shaft rating at 60Hz	480HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	400HP	100	75%	0.73

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	kW	V	A	Ω					
50	1050	30	875	37	1.05	12.16	3.71	772	350	ST
55	1160	34	970	37	1.18	13.53	4.13	863	391	ST
65	1080	40	900	47	0.86	16.26	4.96	1048	475	ST
65	1480	40	1235	37	1.45	16.26	4.96	1048	475	ST
75	1220	45	1015	47	0.94	17.63	5.38	1147	520	ST
75	1600	45	1335	37	1.59	17.63	5.38	1147	520	ST
80	1300	50	1085	47	1.03	19.01	5.80	1247	565	ST
80	1800	50	1500	37	1.72	19.01	5.80	1247	565	ST
90	1440	55	1200	47	1.10	20.39	6.22	1346	610	ST
90	1900	55	1585	37	1.86	20.39	6.22	1346	610	ST
95	1580	60	1315	47	1.18	21.77	6.64	1445	655	ST
95	2100	60	1750	37	1.99	21.77	6.64	1445	655	ST
100	1650	62.5	1375	47	1.26	23.15	7.06	1545	700	ST
105	1750	65	1455	47	1.34	24.52	7.48	1644	745	ST
115	1860	70	1550	47	1.42	25.90	7.90	1743	790	ST
120	1950	75	1625	47	1.50	27.28	8.32	1842	835	ST
130	2100	80	1750	47	1.58	28.66	8.74	1942	880	ST

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length, and the transport length needs to be added to 0.08m.

SD 562 Series Motor

Outside diameter	5.62in	Operational motor data at 60Hz and 100% load		
Minimum casing size	7in			
Shaft rating at 60Hz	850HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	708HP	100	82%	0.85

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
35	520	28	430	39	0.38	5.50	1.68	318	144	ST
						4.95	1.51	267	121	UT
50	765	42.5	640	39	0.63	6.87	2.10	397	180	ST
						6.33	1.93	357	162	UT
60	1295	50	1080	28.5	1.25	8.22	2.51	507	230	ST
						7.71	2.35	448	203	UT
65	840	56.5	710	48	0.52	8.22	2.51	507	230	ST
						7.71	2.35	448	203	UT
70	1250	56.5	1080	33	1.16	8.22	2.51	507	230	ST
						7.71	2.35	448	203	UT
85	1070	71	890	48	0.63	9.60	2.93	596	270	ST
						9.09	2.77	543	246	UT
100	1270	85	1060	48	0.73	10.97	3.35	684	310	ST
						10.43	3.18	647	293	UT
120	1500	99	1250	48	0.84	12.32	3.76	794	360	ST
						11.81	3.60	737	334	UT
						12.07	3.68	737	334	CT
135	1340	113.5	1120	61	0.60	13.70	4.18	883	400	ST
						13.19	4.02	830	376	UT
135	1715	113.5	1430	48	0.95	13.70	4.18	883	400	ST
						13.19	4.02	830	376	UT
140	1340	120	1150	63	0.58	13.70	4.18	883	400	ST
						13.19	4.02	830	376	UT
150	1510	127.5	1260	61	0.67	15.08	4.60	971	440	ST
						14.57	4.44	925	419	UT
150	1925	127.5	1590	48	1.06	15.08	4.60	971	440	ST
						14.57	4.44	925	419	UT
150	3190	127.5	2658	29	3.14	15.08	4.60	971	440	ST
						14.57	4.44	925	419	UT
170	1060	142	890	96	0.29	16.45	5.02	1081	490	ST
						15.91	4.85	1015	460	UT
170	1690	142	1410	61	0.73	16.45	5.02	1081	490	ST
						15.91	4.85	1015	460	UT

SD 562 SERIES MOTOR



SD 562 SERIES MOTOR

60Hz rating		50Hz rating		Current A	Ph-Ph Resistance Ω	Length		Weight		Configuration
Power HP	Volts V	Power HP	Volts V			ft	m	lbs	kg	
170	2140	142	1780			48	1.16	16.45	5.02	
						15.91	4.85	1015	460	UT
190	1150	156	960	96	0.31	17.83	5.44	1169	530	ST
						17.29	5.27	1112	504	UT
						17.55	5.35	1112	504	CT
190	1840	156	1530	61	0.80	17.83	5.44	1169	530	ST
						17.29	5.27	1112	504	UT
						17.55	5.35	1112	504	CT
190	2355	156	1920	48	1.27	17.83	5.44	1169	530	ST
						17.29	5.27	1112	504	UT
						17.55	5.35	1112	504	CT
200	1275	170	1070	96	0.34	19.18	5.85	1258	570	ST
						18.67	5.69	1198	543	UT
						18.93	5.77	1198	543	CT
200	2000	170	1690	61	0.87	19.18	5.85	1258	570	ST
						18.67	5.69	1198	543	UT
						18.93	5.77	1198	543	CT
200	2565	170	2140	48	1.38	19.18	5.85	1258	570	ST
						18.67	5.69	1198	543	UT
220	1350	184.5	1125	96	0.37	20.55	6.27	1346	610	ST
						20.05	6.11	1295	587	UT
						20.28	6.18	1295	587	CT
220	2145	184.5	1800	61	0.94	20.55	6.27	1346	610	ST
						20.05	6.11	1295	587	UT
						20.28	6.18	1295	587	CT
220	2750	184.5	2270	48	1.49	20.55	6.27	1346	610	ST
						20.05	6.11	1295	587	UT
240	1420	200	1183	102.5	0.38	21.93	6.69	1434	650	ST
						21.42	6.53	1390	630	UT
						21.65	6.60	1390	630	CT
240	2550	200	2125	57	0.97	21.93	6.69	1434	650	ST
						21.42	6.53	1390	630	UT
255	1550	212	1330	96	0.42	23.28	7.10	1545	700	ST
						22.77	6.94	1481	671	UT
						23.03	7.02	1481	671	CT
255	2520	212	2100	61	1.12	23.28	7.10	1545	700	ST
						22.77	6.94	1481	671	UT
270	1650	227	1400	96	0.44	24.66	7.52	1626	737	ST
						24.15	7.36	1589	720	UT

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
270	1650	227	1400	96	0.44	24.41	7.44	1589	720	CT
270	2650	227	2220	61	1.14	24.66	7.52	1626	737	ST
						24.15	7.36	1589	720	UT
285	1750	241	1480	96	0.47	25.78	7.86	1732	785	ST
						25.52	7.78	1712	776	UT
						25.75	7.85	1712	776	CT
285	2820	241	2350	61	1.21	26.03	7.94	1732	785	ST
						25.52	7.78	1712	776	UT
310	1510	258	1258	122	0.30	27.41	8.36	1838	833	ST
						26.90	8.20	1803	817	UT
						27.13	8.27	1803	817	CT
310	1880	255.5	1575	96	0.50	27.41	8.36	1838	833	ST
						26.90	8.20	1803	817	UT
						27.13	8.27	1803	817	CT
310	2250	258	1875	83	0.65	27.41	8.36	1838	833	ST
						26.90	8.20	1803	817	UT
						27.13	8.27	1803	817	CT
310	2980	255.5	2500	61	1.27	27.41	8.36	1838	833	ST
						26.90	8.20	1803	817	UT
325	1595	271	1329	122	0.32	28.79	8.78	1944	881	ST
						28.28	8.62	1895	859	UT
						28.51	8.69	1898	860	CT
325	2000	269.5	1650	96	0.52	28.79	8.78	1944	881	ST
						28.28	8.62	1895	859	UT
						28.51	8.69	1898	860	CT
325	3170	269.5	2630	61	1.34	28.79	8.78	1944	881	ST
						28.28	8.62	1895	859	UT
340	1600	283	1333	125	0.33	30.13	9.19	2052	930	ST
						29.63	9.03	1988	901	UT
						29.89	9.11	1988	901	CT
340	2100	283	1770	96	0.55	30.13	9.19	2052	930	ST
						29.63	9.03	1988	901	UT
						29.89	9.11	1988	901	CT
340	3360	283	2800	61	1.41	30.13	9.19	2052	930	ST
						29.63	9.03	1988	901	UT

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;

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3. UT+UMB/CT+UMB: Installation length is UT/CT motor length plus 0.15m;
UT+SMB/CT+SMB: Installation length is UT/CT motor length plus 0.14m;
4. For ST, LT, UT+UMB, CT+UMB, UT+SMB and CT+SMB motors, the transport length needs to be added to 0.08m; for UT and CT Motors, the transport length needs to be added to 0.15m.

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Outside diameter	5.62in	Operational motor data at 60Hz and 100% load		
Minimum casing size	7in			
Shaft rating at 60Hz	960HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	800HP	100	82%	0.83

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
60	405	50	338	95	0.14	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	465	50	388	83	0.20	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	525	50	438	74	0.25	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	590	50	492	65	0.28	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	655	50	546	59	0.34	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	770	50	642	50	0.46	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	835	50	696	46	0.55	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	895	50	746	43	0.67	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	1015	50	846	38	0.84	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
60	1125	50	938	34	1.07	5.99	1.83	419	190	ST
						6.04	1.84	503	228	UT
90	430	75	358	133	0.10	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	520	75	433	110	0.15	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	605	75	504	94	0.19	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	700	75	583	82	0.27	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	790	75	658	73	0.35	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	885	75	738	65	0.39	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	980	75	817	59	0.48	7.73	2.36	523	237	ST

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
90	980	75	817	59	0.48	7.78	2.37	607	275	UT
90	1155	75	963	50	0.63	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	1250	75	1042	46	0.77	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	1345	75	1121	43	0.92	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	1525	75	1271	38	1.16	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
90	1690	75	1408	34	1.48	7.73	2.36	523	237	ST
						7.78	2.37	607	275	UT
120	570	100	475	133	0.12	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	690	100	575	110	0.20	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	805	100	671	94	0.24	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	930	100	775	82	0.35	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	1045	100	871	73	0.45	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	1180	100	983	65	0.49	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	1305	100	1088	59	0.61	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	1540	100	1283	50	0.81	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	1665	100	1388	46	0.98	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
120	1790	100	1492	43	1.17	9.50	2.9	627	284	ST
						9.55	2.91	711	322	UT
150	710	125	592	133	0.15	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT
150	860	125	717	110	0.23	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT
150	1005	125	838	94	0.30	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT
150	1155	125	963	82	0.42	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
150	1305	125	1088	73	0.54	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT
150	1475	125	1229	65	0.60	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT
150	1620	125	1350	59	0.74	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT
150	1920	125	1600	50	0.98	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT
180	850	150	708	133	0.18	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
180	1030	150	858	110	0.27	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
180	1205	150	1004	94	0.35	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
180	1385	150	1154	82	0.50	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
180	1560	150	1300	73	0.64	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
180	1765	150	1471	65	0.71	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
180	1945	150	1621	59	0.87	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
210	990	175	825	133	0.20	14.75	4.5	938	425	ST
						14.80	4.51	1022	463	UT
210	1195	175	996	111	0.31	14.75	4.5	938	425	ST
						14.80	4.51	1022	463	UT
210	1400	175	1167	94	0.40	14.75	4.5	938	425	ST
						14.80	4.51	1022	463	UT
210	1610	175	1342	82	0.57	14.75	4.5	938	425	ST
						14.80	4.51	1022	463	UT
210	1815	175	1513	73	0.74	14.75	4.5	938	425	ST
						14.80	4.51	1022	463	UT
240	1135	200	946	133	0.23	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
						16.72	5.1	1057	479	LT
240	1370	200	1142	110	0.35	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
						16.72	5.1	1057	479	LT
240	1600	200	1333	94	0.46	16.49	5.03	1041	472	ST

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60Hz rating		50Hz rating		Current A	Ph-Ph Resistance Ω	Length		Weight		Configuration
Power HP	Volts V	Power HP	Volts V			ft	m	lbs	kg	
240	1600	200	1333			94	0.46	16.54	5.04	
				16.72	5.1			1057	479	LT
240	1840	200	1533	82	0.65	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
						16.72	5.1	1057	479	LT
270	1270	225	1058	133	0.26	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
						18.45	5.63	1161	526	LT
270	1540	225	1283	110	0.39	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
						18.45	5.63	1161	526	LT
270	1800	225	1500	94	0.51	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
						18.45	5.63	1161	526	LT
300	1410	250	1175	133	0.28	20.00	6.1	1249	566	ST
						20.05	6.11	1333	604	UT
						20.19	6.16	1264	573	LT
300	1710	250	1425	110	0.43	20.00	6.1	1249	566	ST
						20.05	6.11	1333	604	UT
						20.19	6.16	1264	573	LT
330	1550	275	1292	133	0.31	21.77	6.64	1353	613	ST
						21.78	6.64	1436	651	UT
						21.97	6.7	1368	620	LT
330	1880	275	1567	110	0.47	21.77	6.64	1353	613	ST
						21.78	6.64	1436	651	UT
						21.97	6.7	1368	620	LT
360	1695	300	1413	133	0.34	23.51	7.17	1456	660	ST
						23.56	7.18	1540	698	UT
						23.70	7.23	1472	667	LT
390	1835	325	1529	133	0.36	25.25	7.7	1560	707	ST
						25.30	7.71	1644	745	UT
						25.48	7.77	1575	714	LT
420	1980	350	1650	133	0.39	27.02	8.24	1664	754	ST
						27.07	8.25	1748	792	UT
						27.21	8.3	1679	761	LT

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;

3. UT+UMB: Installation length is UT motor length plus 0.15m;
 UT+SMB: Installation length is UT length plus 0.14m;
4. For ST, LT, UT+UMB and UT+SMB motors, the transport length needs to be added to 0.08m;
 for UT, the transport length needs to be added to 0.15m.

60Hz rating		50Hz rating		Current A	Ph-Ph Resistance Ω	Length		Weight		Configuration
Power HP	Volts V	Power HP	Volts V			ft	m	lbs	kg	
150	2235	125	1863			43	1.59	11.24	3.43	
				11.29	3.44			814	369	UT
150	2535	125	2113	38	2.05	11.24	3.43	730	331	ST
						11.29	3.44	814	369	UT
180	2490	150	2075	46	1.57	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
180	2675	150	2229	43	1.87	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
180	3040	150	2533	38	2.41	13.01	3.97	834	378	ST
						13.02	3.97	918	416	UT
210	2265	175	1888	59	1.13	14.75	4.50	938	425	ST
						14.80	4.51	1022	463	UT
210	2480	175	2067	54	1.38	14.75	4.50	938	425	ST
						14.80	4.51	1022	463	UT
210	2905	175	2421	46	1.81	14.75	4.50	938	425	ST
						14.80	4.51	1022	463	UT
210	3120	175	2600	43	2.15	14.75	4.50	938	425	ST
						14.80	4.51	1022	463	UT
210	3540	175	2950	38	2.78	14.75	4.50	938	425	ST
						14.80	4.51	1022	463	UT
240	2350	200	1958	65	1.03	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
240	2585	200	2154	59	1.28	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
240	2830	200	2358	54	1.56	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
240	3315	200	2763	46	2.04	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
240	3560	200	2967	43	2.44	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
240	4040	200	3367	38	3.14	16.49	5.03	1041	472	ST
						16.54	5.04	1125	510	UT
270	2365	225	1971	73	0.92	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
						18.45	5.63	1161	526	LT

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
270	2645	225	2204	65	1.15	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
270	2910	225	2425	59	1.42	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
270	3180	225	2650	54	1.74	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
270	3725	225	3104	46	2.28	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
270	4000	225	3333	43	2.72	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
270	4540	225	3783	38	3.51	18.26	5.57	1145	519	ST
						18.31	5.58	1229	557	UT
300	2310	250	1925	82	0.91	20.00	6.10	1249	566	ST
						20.05	6.11	1333	604	UT
						20.19	6.16	1264	573	LT
300	2625	250	2188	73	1.02	20.00	6.10	1249	566	ST
						20.05	6.11	1333	604	UT
300	2940	250	2450	65	1.27	20.00	6.10	1249	566	ST
						20.05	6.11	1333	604	UT
300	3230	250	2692	59	1.57	20.00	6.10	1249	566	ST
						20.05	6.11	1333	604	UT
300	3530	250	2942	54	1.92	20.00	6.10	1249	566	ST
						20.05	6.11	1333	604	UT
300	4130	250	3442	46	2.52	20.00	6.10	1249	566	ST
						20.05	6.11	1333	604	UT
300	4440	250	3700	43	3.00	20.00	6.10	1249	566	ST
						20.05	6.11	1333	604	UT
330	2205	275	1838	94	0.69	21.77	6.64	1353	613	ST
						21.78	6.64	1436	651	UT
						21.97	6.70	1368	620	LT
330	2540	275	2117	82	1.00	21.77	6.64	1353	613	ST
						21.78	6.64	1436	651	UT
330	2890	275	2408	73	1.11	21.77	6.64	1353	613	ST
						21.78	6.64	1436	651	UT
330	3230	275	2692	65	1.39	21.77	6.64	1353	613	ST
						21.78	6.64	1436	651	UT
330	3550	275	2958	59	1.72	21.77	6.64	1353	613	ST
						21.78	6.64	1436	651	UT
330	3880	275	3233	54	2.11	21.77	6.64	1353	613	ST

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
330	3880	275	3233	54	2.11	21.78	6.64	1436	651	UT
330	4545	275	3788	46	2.75	21.77	6.64	1353	613	ST
						21.78	6.64	1436	651	UT
360	2405	300	2004	94	0.75	23.51	7.17	1456	660	ST
						23.56	7.18	1540	698	UT
						23.70	7.23	1472	667	LT
360	2770	300	2308	82	1.08	23.51	7.17	1456	660	ST
						23.56	7.18	1540	698	UT
360	3150	300	2625	73	1.21	23.51	7.17	1456	660	ST
						23.56	7.18	1540	698	UT
360	3525	300	2938	65	1.51	23.51	7.17	1456	660	ST
						23.56	7.18	1540	698	UT
360	3870	300	3225	59	1.87	23.51	7.17	1456	660	ST
						23.56	7.18	1540	698	UT
360	4230	300	3525	54	2.29	23.51	7.17	1456	660	ST
						23.56	7.18	1540	698	UT
390	2230	325	1858	110	0.62	25.25	7.70	1560	707	ST
						25.30	7.71	1644	745	UT
						25.48	7.77	1575	714	LT
390	2605	325	2171	94	0.81	25.25	7.70	1560	707	ST
						25.30	7.71	1644	745	UT
390	3000	325	2500	82	1.17	25.25	7.70	1560	707	ST
						25.30	7.71	1644	745	UT
390	3415	325	2846	73	1.31	25.25	7.70	1560	707	ST
						25.30	7.71	1644	745	UT
390	3810	325	3175	65	1.63	25.25	7.70	1560	707	ST
						25.30	7.71	1644	745	UT
390	4190	325	3492	59	2.02	25.25	7.70	1560	707	ST
						25.30	7.71	1644	745	UT
390	4580	325	3817	54	2.47	25.25	7.70	1560	707	ST
						25.30	7.71	1644	745	UT
420	2400	350	2000	110	0.66	27.02	8.24	1664	754	ST
						27.07	8.25	1748	792	UT
						27.21	8.30	1679	761	LT
420	2805	350	2338	94	0.87	27.02	8.24	1664	754	ST
						27.07	8.25	1748	792	UT
420	3225	350	2688	82	1.25	27.02	8.24	1664	754	ST
						27.07	8.25	1748	792	UT
420	3680	350	3067	73	1.40	27.02	8.24	1664	754	ST

562 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
420	3680	350	3067	73	1.40	27.07	8.25	1748	792	UT
420	4100	350	3417	65	1.75	27.02	8.24	1664	754	ST
						27.07	8.25	1748	792	UT
420	4510	350	3758	59	2.16	27.02	8.24	1664	754	ST
						27.07	8.25	1748	792	UT
450	2570	375	2142	110	0.71	28.76	8.77	1767	801	ST
						28.81	8.78	1851	839	UT
450	3005	375	2504	94	0.93	28.76	8.77	1767	801	ST
						28.81	8.78	1851	839	UT
450	3460	375	2883	82	1.34	28.76	8.77	1767	801	ST
						28.81	8.78	1851	839	UT
450	3940	375	3283	73	1.50	28.76	8.77	1767	801	ST
						28.81	8.78	1851	839	UT
450	4390	375	3658	65	1.86	28.76	8.77	1767	801	ST
						28.81	8.78	1851	839	UT
480	2740	400	2283	110	0.75	30.53	9.31	1871	848	ST
						30.54	9.31	1955	886	UT
480	3200	400	2667	94	0.98	30.53	9.31	1871	848	ST
						30.54	9.31	1955	886	UT
480	3685	400	3071	82	1.42	30.53	9.31	1871	848	ST
						30.54	9.31	1955	886	UT
480	4205	400	3504	73	1.59	30.53	9.31	1871	848	ST
						30.54	9.31	1955	886	UT
480	4685	400	3904	65	1.98	30.53	9.31	1871	848	ST
						30.54	9.31	1955	886	UT

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;
3. UT+UMB: Installation length is UT motor length plus 0.15m;
UT+SMB: Installation length is UT length plus 0.14m;
4. For ST, LT, UT+UMB and UT+SMB motors, the transport needs to be added to 0.08m;
for UT, the transport length needs to be added to 0.15m.

562 Series Motor

Outside diameter	5.62in	Operational motor data at 60Hz and 100% load		
Minimum casing size	7in			
Shaft rating at 60Hz	480HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	400HP	100	75%	0.74

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	kW	V	A	Ω					
46.5	790	29	660	47	0.66	9.68	2.88	576	261	ST
46.5	995	29	829	36.5	1.04	9.68	2.88	576	261	ST
56.5	950	35	790	47	0.77	11.02	3.29	680	308	ST
56.5	1175	35	995	36.5	1.22	11.02	3.29	680	308	ST
64.5	1110	40	925	47	0.89	12.16	3.71	772	350	ST
64.5	1395	40	1165	36.5	1.40	12.40	3.71	772	350	ST
75.5	1260	47	1050	47	1.00	13.53	4.13	863	391	ST
75.5	1590	47	1325	36.5	1.58	13.78	4.13	863	391	ST
84.5	1425	52.5	1190	47	1.11	15.16	4.55	953	432	ST
84.5	1795	52.5	1495	36.5	1.75	15.16	4.55	953	432	ST
93.5	1585	58	1320	47	1.23	16.26	4.96	1048	475	ST
93.5	1980	58	1650	36.5	1.93	16.26	4.96	1048	475	ST
103.5	1745	64.5	1455	47	1.34	17.63	5.38	1147	520	ST
103.5	2190	64.5	1825	36.5	2.11	17.63	5.38	1147	520	ST
112.5	1900	70	1585	47	1.45	19.01	5.80	1247	565	ST
112.5	2375	70	1980	36.5	2.29	19.01	5.80	1247	565	ST
121.5	2055	75.5	1715	47	1.57	20.39	6.22	1346	610	ST
131	2220	81.5	1850	47	1.68	21.77	6.64	1445	655	ST
140.5	2375	87.5	1980	47	1.79	23.15	7.06	1545	700	ST
150.5	2530	93.5	2110	47	1.90	24.52	7.48	1644	745	ST

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length, and the transport length needs to be added to 0.08m.

562 SERIES MOTOR



562 SERIES MOTOR

TM562/6 Series Motor

Outside diameter	5.62in	Operational motor data at 60Hz and 100% load		
Minimum casing size	7in			
Shaft rating at 60Hz	320HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	267HP	100	65%	0.64

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	kW	V	A	Ω					
35.5	455	22	380	88	0.28	12.16	3.71	772	350	ST
35.5	885	22	740	43	1.12	12.40	3.71	772	350	ST
35.5	1020	22	850	35	1.58	12.40	3.71	772	350	ST
35.5	1260	22	1050	29	2.43	12.40	3.71	772	350	ST
40	1000	25	835	43	1.26	13.53	4.13	863	391	ST
45	1125	28	940	43	1.41	15.16	4.55	953	432	ST
50	1250	31	1045	43	1.55	16.26	4.96	1048	475	ST
56	1380	35	1150	43	1.7	17.63	5.38	1147	520	ST
60	1500	37.5	1255	43	1.84	19.01	5.8	1247	565	ST
60	2220	37.5	1850	30	3.99	19.01	5.8	1247	565	ST
65	1620	40.5	1350	43	1.98	20.39	6.22	1346	610	ST
70	1740	43.5	1450	43	2.13	21.77	6.64	1445	655	ST
75	1870	46.5	1560	43	2.27	23.15	7.06	1545	700	ST
80	1990	50	1660	43	2.42	24.52	7.48	1644	745	ST
86	2110	54	1760	43	2.56	25.90	7.9	1743	790	ST
95	2255	59	1880	43	2.71	27.28	8.32	1842	835	ST
100	2375	62.5	1980	43	2.85	28.66	8.74	1942	880	ST

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length, and the transport length needs to be added to 0.08m.

TMY562/10 Series Motor

Outside diameter	5.62in	Operational motor data at 60Hz and 100% load		
Minimum casing size	7in			
Shaft rating at 60Hz	200HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	166HP	100	85%	0.8

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
26	451	21.46	376	36	1.10	5.95	1.82	430	195	ST+SMB
						6.46	1.97	441	200	UT+SMB
26	401	21.46	334	41	0.88	5.95	1.82	430	195	ST+SMB
						6.46	1.97	441	200	UT+SMB
26	374	21.46	312	43	0.74	5.95	1.82	430	195	ST+SMB
						6.46	1.97	441	200	UT+SMB
26	302	21.46	252	54	0.53	5.95	1.82	430	195	ST+SMB
						6.46	1.97	441	200	UT+SMB
26	276	21.46	230	59	0.44	5.95	1.82	430	195	ST+SMB
						6.46	1.97	441	200	UT+SMB
26	252	21.46	210	65	0.35	5.95	1.82	430	195	ST+SMB
						6.46	1.97	441	200	UT+SMB
39	677	32.18	564	36	1.49	7.76	2.37	541	245	ST+SMB
						8.27	2.52	552	250	UT+SMB
39	601	32.18	501	41	1.19	7.76	2.37	541	245	ST+SMB
						8.27	2.52	552	250	UT+SMB
39	562	32.18	468	43	1.00	7.76	2.37	541	245	ST+SMB
						8.27	2.52	552	250	UT+SMB
39	454	32.18	378	54	0.72	7.76	2.37	541	245	ST+SMB
						8.27	2.52	552	250	UT+SMB
39	414	32.18	345	59	0.59	7.76	2.37	541	245	ST+SMB
						8.27	2.52	552	250	UT+SMB
39	378	32.18	315	65	0.48	7.76	2.37	541	245	ST+SMB
						8.27	2.52	552	250	UT+SMB
51	902	42.91	752	36	1.88	9.56	2.92	651	295	ST+SMB
						10.07	3.07	662	300	UT+SMB
51	802	42.91	668	41	1.50	9.56	2.92	651	295	ST+SMB
						10.07	3.07	662	300	UT+SMB
51	749	42.91	624	43	1.26	9.56	2.92	651	295	ST+SMB
						10.07	3.07	662	300	UT+SMB
51	605	42.91	504	54	0.90	9.56	2.92	651	295	ST+SMB
						10.07	3.07	662	300	UT+SMB
51	552	42.91	460	59	0.74	9.56	2.92	651	295	ST+SMB

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562 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
51	552	42.91	460	59	0.74	10.07	3.07	662	300	UT+SMB
51	504	42.91	420	65	0.60	9.56	2.92	651	295	ST+SMB
						10.07	3.07	662	300	UT+SMB
64	1128	53.64	940	36	2.27	11.37	3.47	761	345	ST+SMB
						11.88	3.62	772	350	UT+SMB
64	1002	53.64	835	41	1.81	11.37	3.47	761	345	ST+SMB
						11.88	3.62	772	350	UT+SMB
64	936	53.64	780	43	1.52	11.37	3.47	761	345	ST+SMB
						11.88	3.62	772	350	UT+SMB
64	756	53.64	630	54	1.09	11.37	3.47	761	345	ST+SMB
						11.88	3.62	772	350	UT+SMB
64	690	53.64	575	59	0.89	11.37	3.47	761	345	ST+SMB
						11.88	3.62	772	350	UT+SMB
64	630	53.64	525	65	0.72	11.37	3.47	761	345	ST+SMB
						11.88	3.62	772	350	UT+SMB
77	1354	64.37	1128	36	2.66	13.17	4.02	872	395	ST+SMB
						13.68	4.17	883	400	UT+SMB
77	1202	64.37	1002	41	2.12	13.17	4.02	872	395	ST+SMB
						13.68	4.17	883	400	UT+SMB
77	1123	64.37	936	43	1.78	13.17	4.02	872	395	ST+SMB
						13.68	4.17	883	400	UT+SMB
77	907	64.37	756	54	1.28	13.17	4.02	872	395	ST+SMB
						13.68	4.17	883	400	UT+SMB
77	828	64.37	690	59	1.05	13.17	4.02	872	395	ST+SMB
						13.68	4.17	883	400	UT+SMB
77	756	64.37	630	65	0.85	13.17	4.02	872	395	ST+SMB
						13.68	4.17	883	400	UT+SMB
90	1579	75.10	1316	36	3.05	14.98	4.57	982	445	ST+SMB
						15.49	4.72	993	450	UT+SMB
90	1403	75.10	1169	41	2.43	14.98	4.57	982	445	ST+SMB
						15.49	4.72	993	450	UT+SMB
90	1310	75.10	1092	43	2.05	14.98	4.57	982	445	ST+SMB
						15.49	4.72	993	450	UT+SMB
90	1058	75.10	882	54	1.46	14.98	4.57	982	445	ST+SMB
						15.49	4.72	993	450	UT+SMB
90	966	75.10	805	59	1.20	14.98	4.57	982	445	ST+SMB
						15.49	4.72	993	450	UT+SMB
90	882	75.10	735	65	0.97	14.98	4.57	982	445	ST+SMB
						15.49	4.72	993	450	UT+SMB

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60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
103	1805	85.83	1504	36	3.44	16.78	5.12	1092	495	ST+SMB
						17.29	5.27	1103	500	UT+SMB
103	1603	85.83	1336	41	2.74	16.78	5.12	1092	495	ST+SMB
						17.29	5.27	1103	500	UT+SMB
103	1498	85.83	1248	43	2.31	16.78	5.12	1092	495	ST+SMB
						17.29	5.27	1103	500	UT+SMB
103	1210	85.83	1008	54	1.65	16.78	5.12	1092	495	ST+SMB
						17.29	5.27	1103	500	UT+SMB
103	1104	85.83	920	59	1.35	16.78	5.12	1092	495	ST+SMB
						17.29	5.27	1103	500	UT+SMB
103	1008	85.83	840	65	1.09	16.78	5.12	1092	495	ST+SMB
						17.29	5.27	1103	500	UT+SMB
116	2030	96.55	1692	36	3.84	18.59	5.67	1203	545	ST+SMB
						19.09	5.82	1214	550	UT+SMB
116	1804	96.55	1503	41	3.05	18.59	5.67	1203	545	ST+SMB
						19.09	5.82	1214	550	UT+SMB
116	1685	96.55	1404	43	2.57	18.59	5.67	1203	545	ST+SMB
						19.09	5.82	1214	550	UT+SMB
116	1361	96.55	1134	54	1.84	18.59	5.67	1203	545	ST+SMB
						19.09	5.82	1214	550	UT+SMB
116	1242	96.55	1035	59	1.50	18.59	5.67	1203	545	ST+SMB
						19.09	5.82	1214	550	UT+SMB
116	1134	96.55	945	65	1.21	18.59	5.67	1203	545	ST+SMB
						19.09	5.82	1214	550	UT+SMB
129	2256	107.28	1880	36	4.23	20.39	6.22	1313	595	ST+SMB
						20.90	6.37	1324	600	UT+SMB
129	2004	107.28	1670	41	3.36	20.39	6.22	1313	595	ST+SMB
						20.90	6.37	1324	600	UT+SMB
129	1872	107.28	1560	43	2.83	20.39	6.22	1313	595	ST+SMB
						20.90	6.37	1324	600	UT+SMB
129	1512	107.28	1260	54	2.02	20.39	6.22	1313	595	ST+SMB
						20.90	6.37	1324	600	UT+SMB
129	1380	107.28	1150	59	1.66	20.39	6.22	1313	595	ST+SMB
						20.90	6.37	1324	600	UT+SMB
129	1260	107.28	1050	65	1.34	20.39	6.22	1313	595	ST+SMB
						20.90	6.37	1324	600	UT+SMB
142	2204	118.01	1837	41	3.67	22.19	6.77	1423	645	ST+SMB
						22.70	6.92	1434	650	UT+SMB
142	2059	118.01	1716	43	3.09	22.19	6.77	1423	645	ST+SMB

562 SERIES MOTOR(PMM)

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
142	2059	118.01	1716	43	3.09	22.70	6.92	1434	650	UT+SMB
142	1663	118.01	1386	54	2.21	22.19	6.77	1423	645	ST+SMB
						22.70	6.92	1434	650	UT+SMB
142	1518	118.01	1265	59	1.81	22.19	6.77	1423	645	ST+SMB
						22.70	6.92	1434	650	UT+SMB
142	1386	118.01	1155	65	1.46	22.19	6.77	1423	645	ST+SMB
						22.70	6.92	1434	650	UT+SMB
154	2246	128.74	1872	43	3.35	24.00	7.32	1534	695	ST+SMB
						24.51	7.47	1545	700	UT+SMB
154	1814	128.74	1512	54	2.40	24.00	7.32	1534	695	ST+SMB
						24.51	7.47	1545	700	UT+SMB
154	1656	128.74	1380	59	1.96	24.00	7.32	1534	695	ST+SMB
						24.51	7.47	1545	700	UT+SMB
154	1512	128.74	1260	65	1.58	24.00	7.32	1534	695	ST+SMB
						24.51	7.47	1545	700	UT+SMB
167	1966	139.47	1638	54	2.58	25.80	7.87	1644	745	ST+SMB
						26.31	8.02	1655	750	UT+SMB
167	1794	139.47	1495	59	2.11	25.80	7.87	1644	745	ST+SMB
						26.31	8.02	1655	750	UT+SMB
167	1638	139.47	1365	65	1.71	25.80	7.87	1644	745	ST+SMB
						26.31	8.02	1655	750	UT+SMB
180	2117	150.19	1764	54	2.77	27.61	8.42	1754	795	ST+SMB
						28.12	8.57	1765	800	UT+SMB
180	1932	150.19	1610	59	2.27	27.61	8.42	1754	795	ST+SMB
						28.12	8.57	1765	800	UT+SMB
180	1764	150.19	1470	65	1.83	27.61	8.42	1754	795	ST+SMB
						28.12	8.57	1765	800	UT+SMB

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length, and the transport length needs to be added to 0.08m.

TM738 Series Motor

Outside diameter	7.38in	Operational motor data at 60Hz and 100% load		
Minimum casing size	8.625in			
Shaft rating at 60Hz	1600HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	1333HP	100	85%	0.86

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
210	920	175	767	132.5	0.10	14.53	4.43	2129	965	ST
						14.30	4.35	2052	930	UT
						14.67	4.47	2052	930	LT
210	1575	175	1313	78	0.29	14.53	4.43	2129	965	ST
						14.30	4.35	2052	930	UT
						14.67	4.47	2052	930	LT
210	2250	175	1875	55	0.58	14.53	4.43	2129	965	ST
						14.30	4.35	2052	930	UT
						14.67	4.47	2052	930	LT
210	2610	175	2175	48	0.84	14.53	4.43	2129	965	ST
						14.30	4.35	2052	930	UT
						16.17	4.93	2361	1070	ST
240	1050	200	875	132.5	0.12	15.90	4.85	2279	1033	UT
						16.31	4.97	2279	1033	LT
						16.17	4.93	2361	1070	ST
240	1430	200	1192	98.5	0.23	15.90	4.85	2279	1033	UT
						16.31	4.97	2279	1033	LT
						16.17	4.93	2361	1070	ST
240	1800	200	1500	78	0.33	15.90	4.85	2279	1033	UT
						16.31	4.97	2279	1033	LT
						16.17	4.93	2361	1070	ST
240	2550	200	2125	55	0.66	16.17	4.93	2361	1070	ST
						15.90	4.85	2279	1033	UT
						16.17	4.93	2279	1033	ST
240	2980	200	2483	48	0.95	15.90	4.85	2279	1033	UT
						16.17	4.93	2279	1033	ST
						17.81	5.43	2582	1170	ST
270	1185	225	988	132.5	0.13	17.60	5.35	2507	1136	UT
						17.98	5.48	2507	1136	LT
						17.81	5.43	2582	1170	ST
270	2010	225	1675	78	0.37	17.60	5.35	2507	1136	UT
						17.98	5.48	2507	1136	LT
						17.81	5.43	2582	1170	ST
270	2850	225	2375	55	0.73	17.60	5.35	2507	1136	UT
						17.81	5.43	2582	1170	ST
						17.81	5.43	2582	1170	ST
270	3350	225	2792	48	1.05	17.81	5.43	2582	1170	ST

738 SERIES MOTOR



738 SERIES MOTOR

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V							
270	3350	225	2792	48	1.05	17.56	5.35	2507	1136	UT
300	1315	250	1096	132.5	0.14	19.45	5.93	2813	1275	ST
						19.20	5.85	2734	1239	UT
						19.61	5.98	2734	1239	LT
300	2250	250	1875	78	0.40	19.45	5.93	2813	1275	ST
						19.20	5.85	2734	1239	UT
						19.61	5.98	2734	1239	LT
300	3210	250	2675	55	0.81	19.45	5.93	2813	1275	ST
						19.20	5.85	2734	1239	UT
330	1450	275	1208	132.5	0.15	21.12	6.44	3045	1380	ST
						20.87	6.36	2961	1342	UT
						21.25	6.48	2961	1342	LT
330	2450	275	2042	78	0.44	21.12	6.44	3045	1380	ST
						20.87	6.36	2961	1342	UT
						21.25	6.48	2961	1342	LT
330	3535	275	2946	55	0.88	21.12	6.44	3045	1380	ST
						20.87	6.36	2961	1342	UT
360	1580	300	1317	132.5	0.17	22.76	6.94	3266	1480	ST
						22.51	6.86	3188	1445	UT
						22.89	6.98	3188	1445	LT
360	2700	300	2250	78	0.48	22.76	6.94	3266	1480	ST
						22.51	6.86	3188	1445	UT
390	1710	325	1425	132.5	0.18	24.40	7.44	3497	1585	ST
						24.15	7.36	3416	1548	UT
						24.53	7.48	3416	1548	LT
390	2900	325	2417	78	0.51	24.40	7.44	3497	1585	ST
						24.15	7.36	3416	1548	UT
420	1845	350	1538	132.5	0.19	26.04	7.94	3718	1685	ST
						25.79	7.86	3643	1651	UT
						26.17	7.98	3643	1651	LT
420	3120	350	2600	78	0.55	26.04	7.94	3718	1685	ST
						25.79	7.86	3643	1651	UT
450	1975	375	1646	132.5	0.21	27.68	8.44	3950	1790	ST
						27.43	8.36	3870	1754	UT
						27.84	8.49	3870	1754	LT
450	3325	375	2771	78	0.59	27.68	8.44	3950	1790	ST
						27.43	8.36	3870	1754	UT
480	2110	400	1758	132.5	0.22	29.35	8.95	4170	1890	ST
						29.11	8.87	4097	1857	UT

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Configuration
Power	Volts	Power	Volts			ft	m	lbs	kg	
HP	V	HP	V	A	Ω					
480	2110	400	1758	132.5	0.22	29.48	8.99	4097	1857	LT
480	3550	400	2958	78	0.62	29.35	8.95	4170	1890	ST
						29.11	8.87	4097	1857	UT
510	2250	425	1875	132.5	0.23	30.96	9.44	4402	1995	ST
						30.72	9.36	4325	1960	UT
						31.13	9.49	4325	1960	LT
510	3785	425	3154	78	0.66	30.96	9.44	4402	1995	ST
						30.72	9.36	4325	1960	UT

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;
3. For ST and LT motors, the transport length needs to be added to 0.09m;
for UT and CT Motors, the transport length needs to be added to 0.17m.

456 SERIES MOTOR



456 Series Motor

Outside diameter	4.56in	Operational motor data at 60Hz and 100% load		
Minimum casing size	5.5in			
Shaft rating at 60Hz	256HP	%NP Amps	Eff.	PF
Shaft rating at 50Hz	210HP	100	75%	0.84

60Hz rating		50Hz rating		Current	Ph-Ph Resistance	Length		Weight		Thrust Max Load	
Power	Volts	Power	Volts			ft	m	lbs	kg	60Hz	50Hz
HP	V	HP	V	A	Ω					lbs	lbs
7.5	415	5	346	13.3	1.92	6.2	1.89	441	200	1300 HL3300	1000 HL2750
7.5	460	5	383	12.5	2.24	6.2	1.89	441	200		
15	415	12.5	346	26	0.82	7.4	2.25	573	260		
15	460	12.5	383	24.5	0.92	7.4	2.25	573	260		
22.5	415	18.75	346	37.5	0.54	8.6	2.62	706	320		
22.5	460	18.75	383	35	0.64	8.6	2.62	706	320		
30	460	25	383	46.5	0.38	9.8	2.98	838	380		
37.5	460	31.25	383	57.3	0.34	11.0	3.35	970	440		

Note:

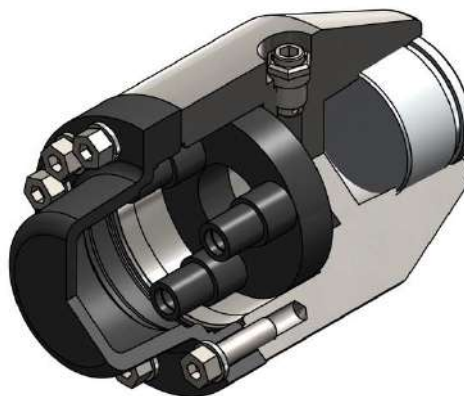
1. The PH-PH resistance in table is at 20°C;
2. HL: High-load thrust bearing.
3. The length in table is the installation length, and the transport length needs to be added to 0.08m.

456 SERIES MOTOR

UMB (Universal motor base)

Series	Length		Weight	
	ft	m	lbs	kg
375	0.50	0.15	21	9.5
456	0.50	0.15	23	10
540	0.50	0.15	33	15
562	0.50	0.15	38	17

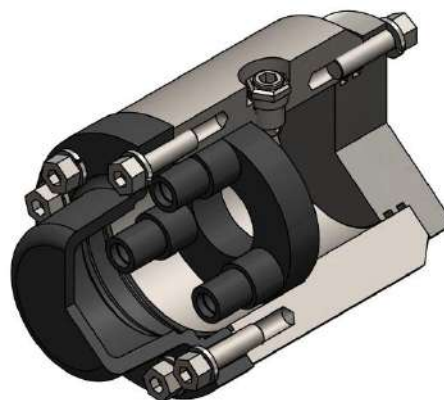
Note: The length in table is the installation length, and the transport length needs to be added to 0.08m.



SMB (Sensor motor base)

Series	Length		Weight	
	ft	m	lbs	kg
375	0.68	0.21	21	9.5
456	0.50	0.15	23	10
540	0.51	0.16	33	15
562	0.47	0.14	35	16

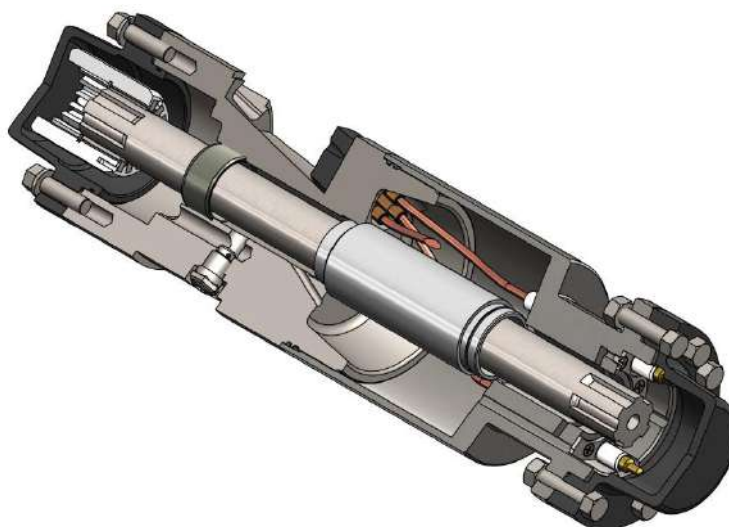
Note: The length in table is the installation length, and the transport length needs to be added to 0.08m.



UMH (Universal motor head)

Series	Length		Weight	
	ft	m	lbs	kg
375	1.11	0.34	27	12
456	1.22	0.37	35	16
540	1.33	0.41	53	24
562	1.33	0.41	55	25

Note: The length in table is the installation length, and the transport length needs to be added to 0.15m (for 375, 540, and 562 Series), or 0.16m (for 456 Series).

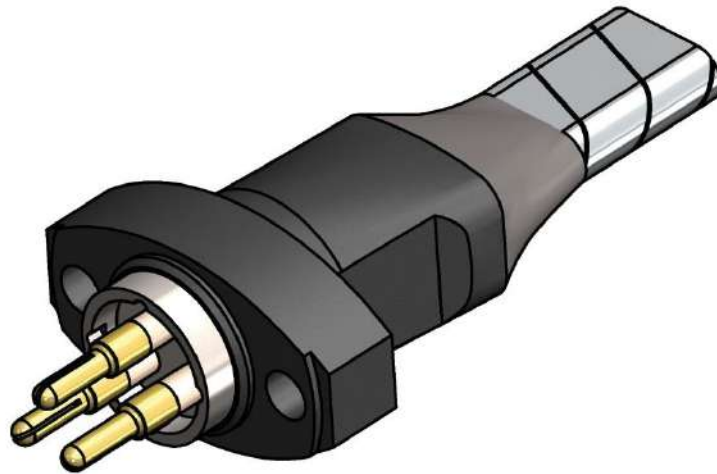


456 SERIES MOTOR

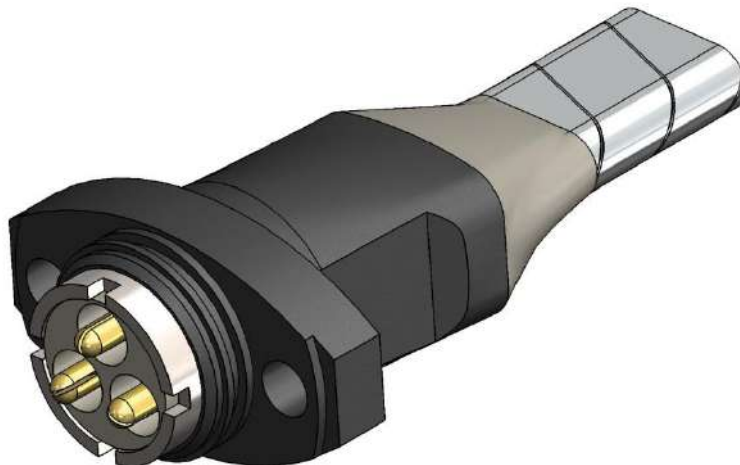
QYJYEQ: 6kV Flat Cable (205 /401 Temperature Rating)

Item	Material Description
Insulation	Polyimide/EPDM
Jacket	Lead
Aarmor	Galvanized, Stainless Steel, Monel

Size	Overall Dimension	
	inch	mm
#7	0.40×1.01	10.16×25.70
#6	0.42×1.06	10.60×26.88
#5	0.50×1.17	12.70×29.70
#4	0.52×1.28	13.20×32.50
#2	0.53×1.48	13.50×37.60



Tape-in



QYJYEQ

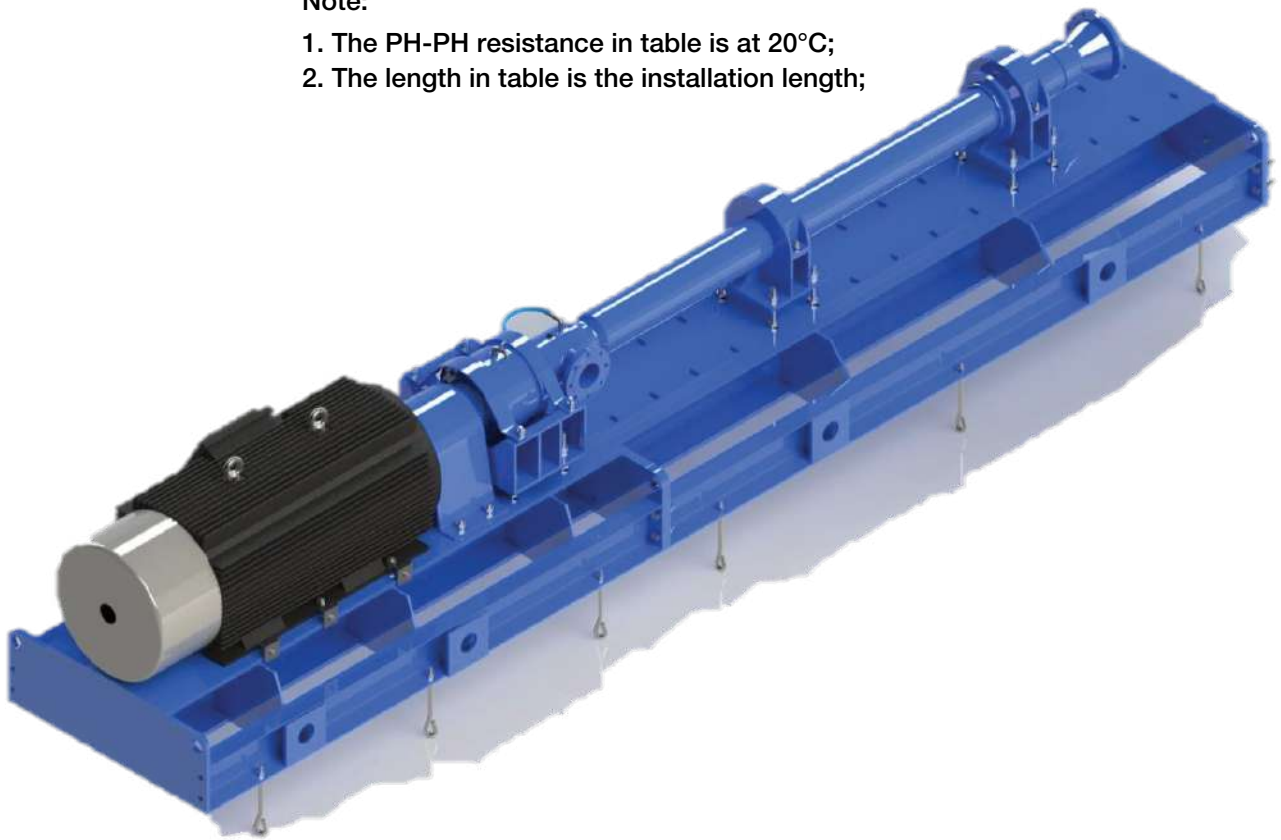
Horizontal Injection Pump System

Outlines

Our injection pump system is a new product with independent intellectual property rights, in application for variety of pipeline pressure engineering and ground liquid transmission projects. The entire system has features of compact design, safety, reliability, low repair rate, easy installation, less environmental influence, small vibration, low noise, and long run life etc. The system is widely used in oil field water injection process.

Note:

1. The PH-PH resistance in table is at 20°C;
2. The length in table is the installation length;



Condition of Application:

1. Medium Available: The liquid to meet the standard of oilfield water injection
2. Water temperature: 0°C~70°C
3. Liquid medium: pH=6~8 (No corrosive)
4. Installation: Horizontal
5. Power frequency: 50Hz、 60Hz
6. Volts: 220V~10000V
7. The inlet pressure: Less than 1MPa
8. Solid particle weight percentage $\leq 0.01\%$

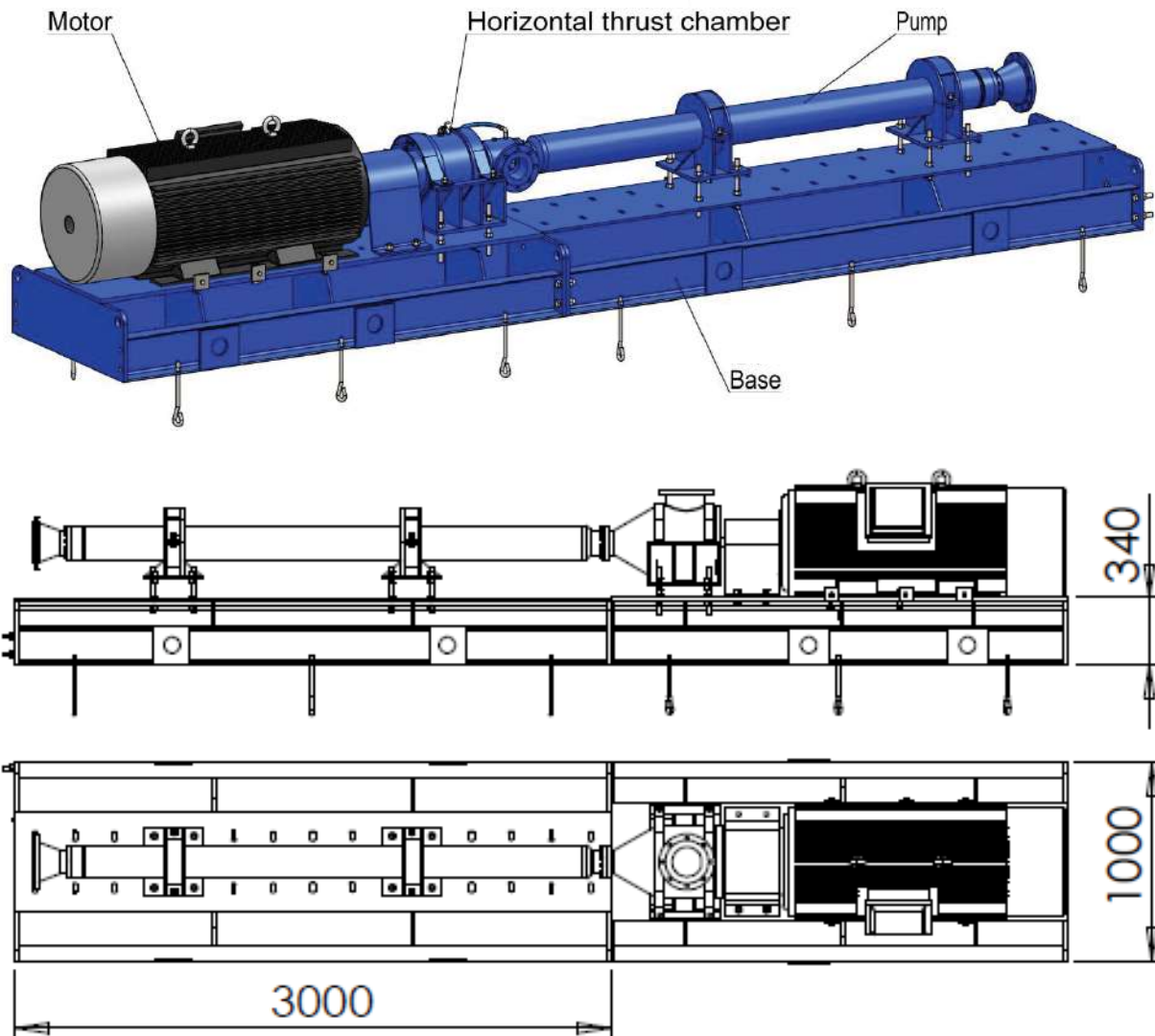
*Note : If you have other special requirement please when ordering.

Type Description

Example: TP875 SQ35000

TP875: Product series

SQ35000: Pump design point flow(BPD)



System description:

The system consists of motor, Axial force bearing device, pump, base.

Motor:

The system uses a standard Y series of explosion-proof motor, the product is simple, reliable, easy installation, low cost, maintainability.

Axial Force Bearing Device:

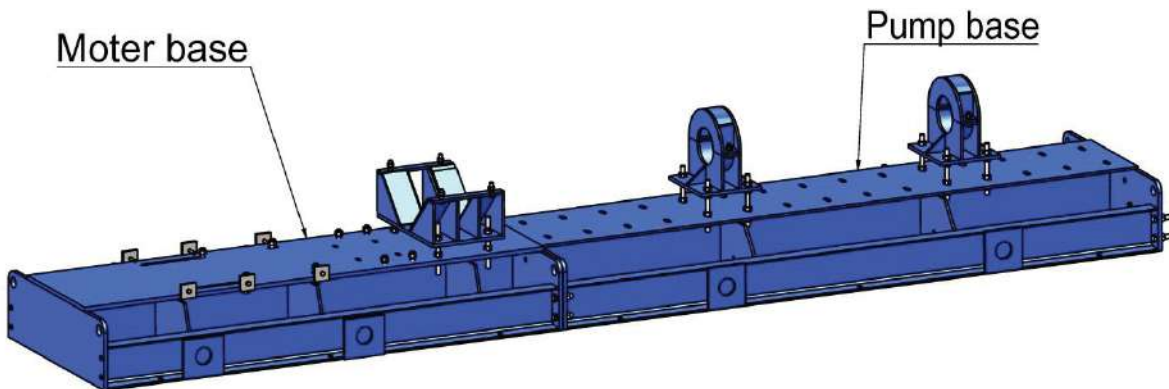
The axial force bearing device for the system is our company's patented products with independent intellectual property rights. The device provides water

PUMP SYSTEM

access. The unique self-cooling circulation system can guarantee the whole system stable and reliable operation under the condition of large axial force. The product is maintenance-free, easy to install and inexpensive.

Pump:

The system uses a conventional full pressure type submersible pump with multistage centrifugal stages. The quantity of stages is variable by different outlet pressure requirements.



Base:

The base mainly consists of two parts, including a pump base and motor base for easy installation and transportation as a whole. The motor, the bearing device, and the pump can be mounted on the base by adjusting the position on the base to meet the actual demand. The whole base is fixed on the ground with anchor bolts. The entire length of the base is adjustable by pump bases increase or decrease , to meet the pump length requirement. Every pump base is 3 meters long.

TP675 PARAMETERS TABLE

TP675 Parameters Table (60Hz, 3500RPM)

PARAMETER \ TYPE	SH16000	SH21000
Rate flow(M ³ /D)	2850.9	2795.9
Single-stage rated head(m)	19.3	16.8
Standard product maximum increase pressure(MPa)	9	7
Non standard product maximum increase pressure(MPa)	14	14

* Please refer to above catalog for the pump performance curve.

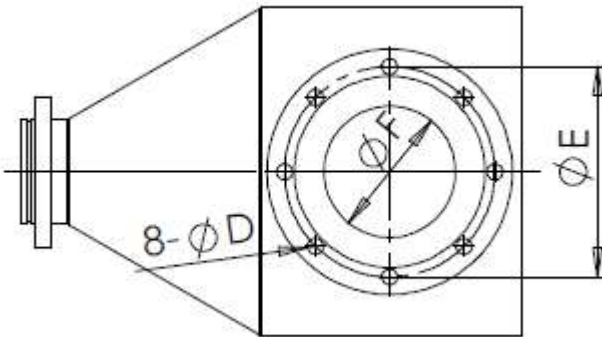
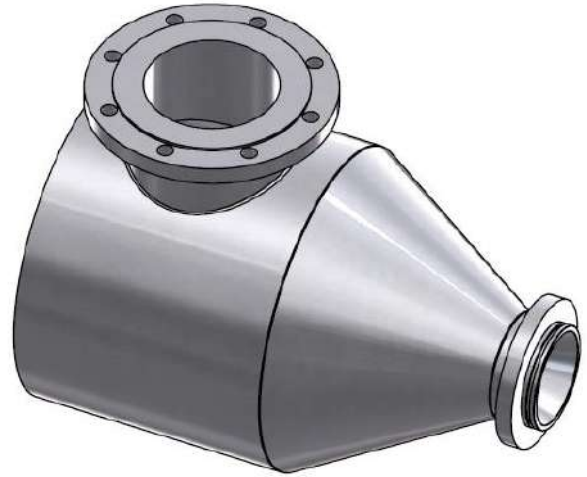
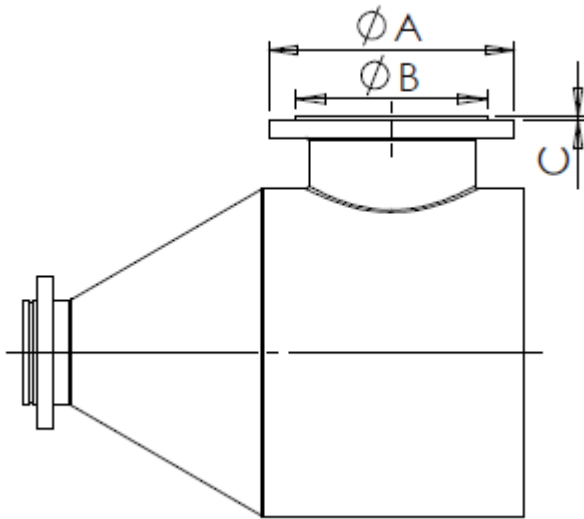
TP875 PARAMETERS TABLE

TP875 Parameters Table (60Hz, 3500RPM)

PARAMETER \ TYPE	SQ27000	SQ35000
Rate flow(M ³ /D)	4290.3	5561.5
Single-stage rated head(m)	33	33
Standard product maximum increase pressure(MPa)	9	9
Non standard product maximum increase pressure(MPa)	10	10

* Please refer to the above catalog for the pump performance curve

Intake Connection Dimension

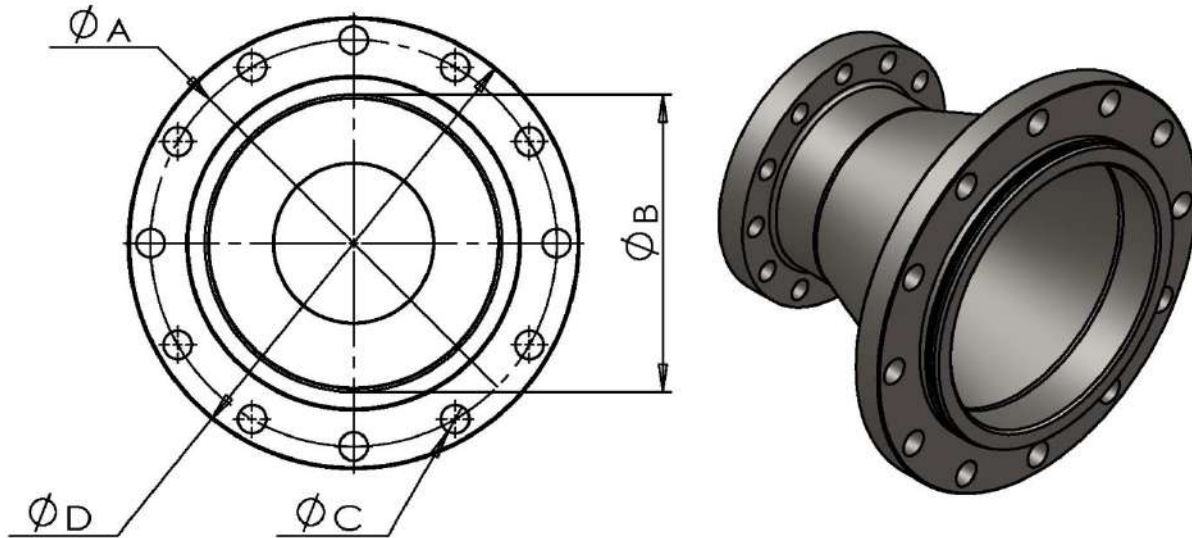


TYPE	DIM.	A	B	C	D	E	F
	TP675		220	158	3	18	180
TP875		280	218	3	18	240	150
TP1025		280	218	3	18	240	150

* Note: All dimensions in millimeter.

DISCHARGE CONNECTION

Discharge Connection Dimension



TYPE	DIM.	A	B	C	D
	TP675		243	200	17
TP875		250	207	17	275
TP1025		258	215	17	283

* Note: All dimensions in millimeter.

HORIZONTAL PUMP

Since the launch of the Horizontal pumping system **NOVA ESP** has proved to be a cost effective alternative to split case, vertical turbine and positive displacement pump designs in many applications.

The Horizontal Injection System is available in a wide range of sizes with discharge rates from 700 bpd to 65,000 bpd and discharge pressures up to 4320 PSI. Higher discharge pressures are available upon request. They can also be installed in parallel for large volumes and for protection from total system shutdown.

The Horizontal Injection System is standard manifold is typically limited to a maximum pressure of approximately 200 PSI, although, higher pressure intake manifold pressures in the range of 0 to 3,000 PSI are available upon request. There is also a minimum suction pressure limitation, required to prevent cavitations, depending on pump design.

The horizontal injection system is a high volume, high pressure pump ideally suited for use in water flood operations, in transfer wells and as a pipeline booster pump. It moves fluid with a standard centrifugal pump, driven by a standard class A or B electric motor, through a specially designed thrust chamber. There is no crank case, or plunger, because the pump section and fluid seal are cooled by the pumped fluid itself.

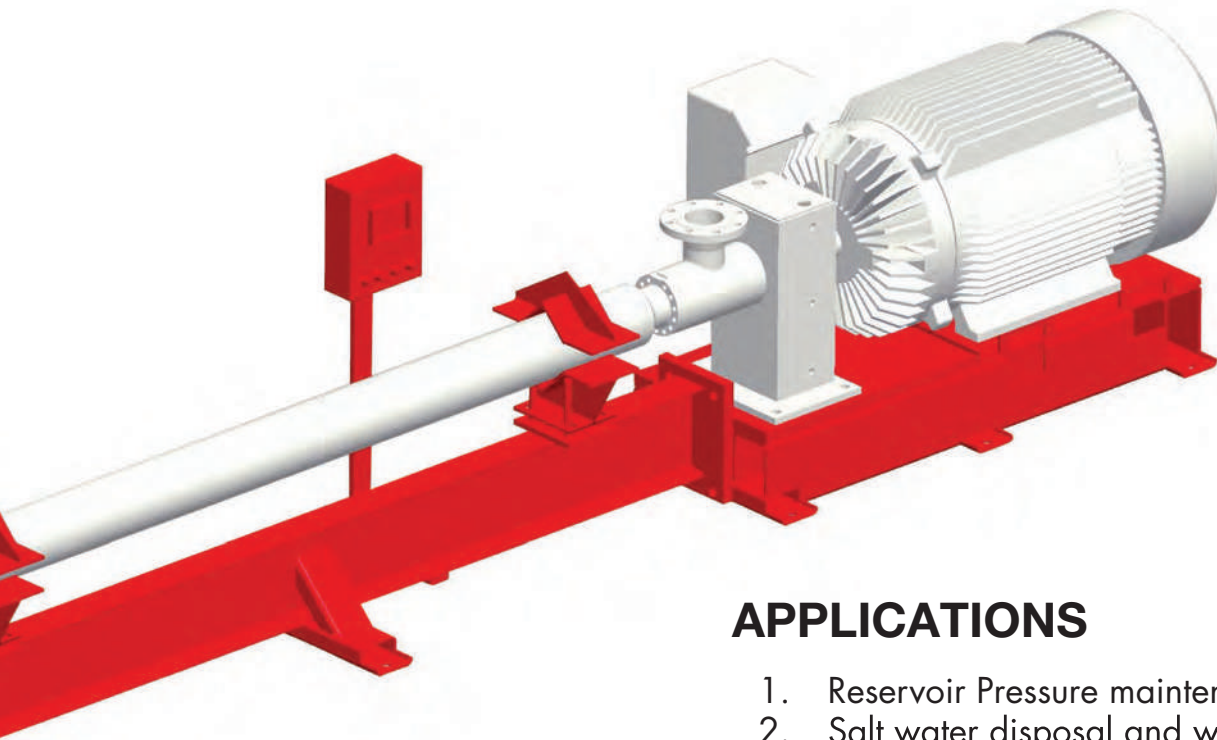
These pre-packaged units are provided as a whole system from a single-source vendor and delivered pre-assembled to the site. The modular design of factory aligned components permits easy maintenance and minimal downtime when maintenance is required. All major components can be exchanged within 2 or 3 hours and the exception of the motor, will not require realignment before the pump is started.



NOVA ESP SURFACE PUMPING SYSTEMS



NOVA ESP Trouble-Free service requires no daily maintenance. There are no V-belts or packing to service, and a typical routine maintenance schedule is a quarterly lubricant change and component check. Quiet, smooth running performance extends equipment life and greatly the chance of leakage from associated piping. Quiet operation makes the Horizontal Pumping system an ideal for urban and environmentally sensitive locations.



APPLICATIONS

1. Reservoir Pressure maintenance
2. Salt water disposal and water flood
3. Crude Transfer
4. Pipe line booster service
5. Testing service transfer
6. Mine dewatering
7. CO₂ Booster service
8. Power fluid booster for hydraulic lift system
9. Natural Gas Liquids (NGL) Booster Services
10. Lean Amine circulation
11. Fracturing for coal bed Methane



NOVA

Electrical Submersible Pumps

PUMP SELECTION DATA SHEET

1	STATIC PRESSURE @ DATUM	PSI	KPA
2	FLOWING PRESSURE @DATUM	PSI	KPA
3	MEASURED RATE@FLOWING PRESSURE	BPD	M3/D
4	OIL API GRAVITY		
5	GAS GRAVITY (IF UNKNOWN ASSUME 0.65)		
6	WATER GRAVITY (IF UNKNOWN ASSUME 1.05)		
7	WATER CUT	%	%
8	OIL VISCOSITY	CP	SSU@
9	GOR	SCF/STB	M3/M3
10	FORMATION VOLUME FACTOR		
11	TEMPERATURE@DATUM	F	C
12	DESIRED WELLHEAD PRESSURE	PSI	KPA
13	WELLHEAD TEMPRETURE	F	C
14	BUBBLE POINT PRESSURE	PSI	KPA
15	PI		
16	CASING PRESSURE	PSI	KPA
17	MEASURED DEPTH TO DATUM	FT	M
18	VERTICAL DEPTH TO DATUM	FT	M
19	DESIRED PUMP SETTING DEPTH	FT	M
20	PERFORATION DEPTH	FT	M
21	DESIRED FLOW RATE	BPD	M3/D
22	CASING SIZE	IN	MM
23	CASING WEIGHT	LB/FT	KG/M
24	TUBING SIZE	IN	MM
25	ABRASIVE MATERIAL PRESENT		
26	TYPE OF THE CORROSIVE ENVIRONMENT		
27	POWER SUPPLY FREQUENCY	HERTZ	HERTZ
28	PRIMARY POWER SUPPLY	VOLTS	VOLTS



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