Submittal Data Information

VM01 Series Pumps

301-2000B

Single and Three Phase, 60 Cycle, 3450 RPM

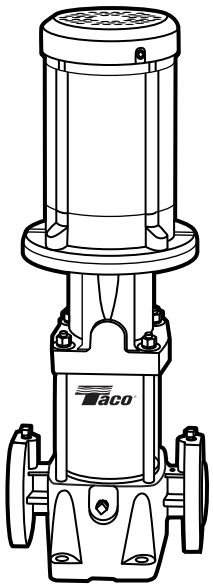
SUPERSEDES: August 5, 2013 EFFECTIVE: December 16, 2013

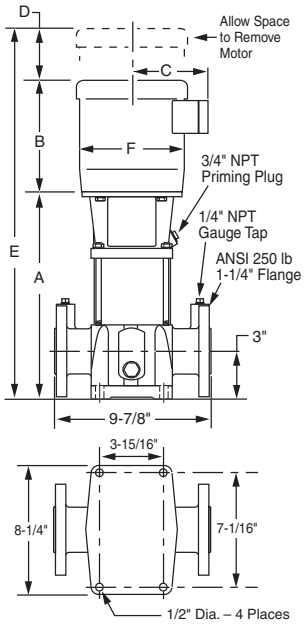
JOB _____ MODEL _____

ENGINEER _____ CONTRACTOR _____ REP. _____

ITEM NO.	MODEL NO.	IMPELLER DIA.	G.P.M.	HEAD/FT.	H.P.	ELEC. CHARS.

DIMENSIONS AND SPECIFICATIONS





MATERIALS OF CONSTRUCTION		
COMPONENT	**STANDARD**	**OPTIONAL**
Casing	Class 30 Cast Iron	AISI 304 SS / AISI 316 SS
Impellers	AISI 304 SS	AISI 304 SS / AISI 316 SS
Diffusers	AISI 304 SS	AISI 304 SS / AISI 316 SS
Shaft	AISI 316 SS	Same
Elastomers	EDPM	Consult Factory
Intermediate Bearings	Aluminum Oxide Ceramic	Same
Bearing Ring	Tungsten Carbide	Same
Mechanical Seal	Tungsten Carbide/ Carbon EPDM	Consult Factory

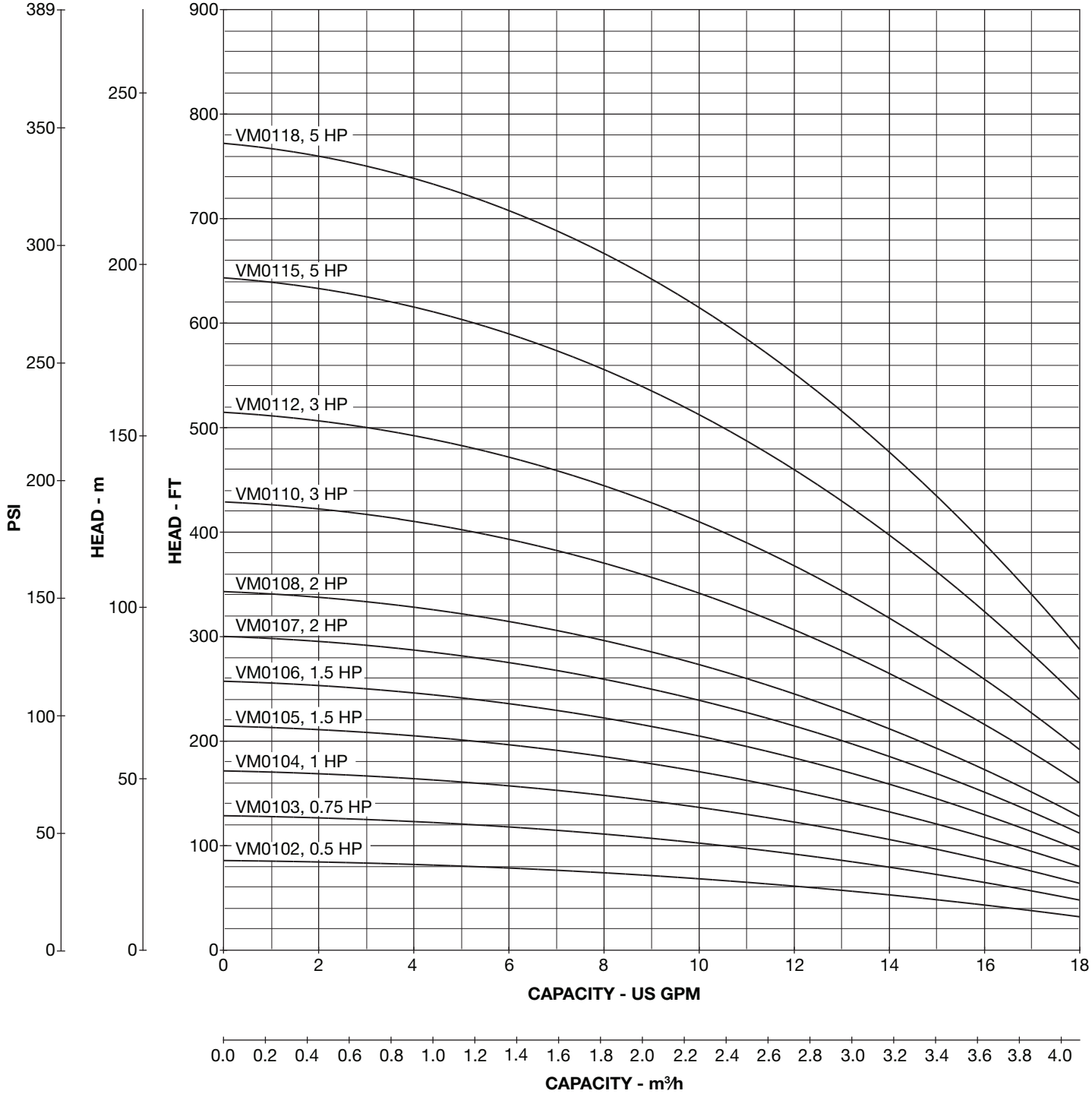
OPERATING SPECIFICATIONS	
Liquid Temp. Range	5ºF (-15ºC) to 250ºF (120ºC)
Max. Working Pressure	360 psi (25 Bar)
Min. Pumping Rates	1.2 GPM
Pipe Connections	1¼" CLASS 300

* Measurements represent the largest number possible for each Model

Model Number	HP	Motor S.F.	Ph	Volts	Frame Size	Disc. Size	Suc. Size	Dimension in Inches*						TEFC Wt.	ODP Wt.
								A	B	C	D	E	F		
VM0102	0.5	1.25	1	115/208-230	56C	1¼	1¼	11⅜	9¼	4⅞	2	22⅝	6	77	63
VM0102	0.5	1.25	3	208-230/460	56C	1¼	1¼	11⅜	9¼	4⅞	2	22⅝	6	70	62
VM0103	0.75	1.25	1	115/208-230	56C	1¼	1¼	11⅜	9⅞	4⅞	2	23¼	6	83	67
VM0103	0.75	1.25	3	208-230/460	56C	1¼	1¼	11⅜	9¼	4⅞	2	22⅝	6	75	64
VM0104	1	1.25	1	115/208-230	56C	1¼	1¼	12	11⅛	5¼	2	25¼	7⅛	87	79
VM0104	1	1.25	3	208-230/460	56C	1¼	1¼	12	9¼	4⅞	2	23⅜	6	78	66
VM0105	1.5	1.15	1	115/208-230	56C	1¼	1¼	12¾	11⅛	5⅝	2	26	7⅛	93	88
VM0105	1.5	1.15	3	208-230/460	56C	1¼	1¼	12¾	10⅛	5¾	2⅛	25	7¼	89	82
VM0106	1.5	1.15	1	115/208-230	56C	1¼	1¼	13½	11⅛	5⅝	2	26⅝	7⅛	93	90
VM0106	1.5	1.15	3	208-230/460	56C	1¼	1¼	13½	10⅛	5¾	2⅛	25¾	7¼	88	84
VM0107	2	1.15	1	115/208-230	56C	1¼	1¼	14⅛	12⅛	5⅝	2	28¼	7⅛	108	92
VM0107	2	1.15	3	208-230/460	56C	1¼	1¼	14⅛	11⅛	5¾	2⅛	27⅜	7¼	98	88
VM0108	2	1.15	1	115/208-230	56C	1¼	1¼	14⅞	12⅛	5⅝	2	29	7⅛	103	93
VM0108	2	1.15	3	208-230/460	56C	1¼	1¼	14⅞	11⅛	5¾	2⅛	28⅛	7¼	99	89
VM0110	3	1.15	1	115/208-230	182TC	1¼	1¼	16⅝	13⅝	6⅞	2¾	33⅛	8½	152	129
VM0110	3	1.15	3	208-230/460	182TC	1¼	1¼	16⅝	12¼	6⅞	2⅞	31⅞	8½	123	98
VM0112	3	1.15	1	115/208-230	182TC	1¼	1¼	18⅛	13⅝	6⅞	2¾	34½	8½	142	132
VM0112	3	1.15	3	208-230/460	182TC	1¼	1¼	18⅛	12¼	6⅞	2⅞	33¼	8½	123	101
VM0115	5	1.15	1	208-230	213TC	1¼	1¼	20¼	15¼	8	3⅜	38⅞	10⅝	167	167
VM0115	5	1.15	3	208-230/460	184TC	1¼	1¼	20¼	13⅝	6⅞	2⅞	36¾	8½	157	136
VM0118	5	1.15	1	208-230	213TC	1¼	1¼	22⅜	15¼	8	3⅜	41	10⅝	172	190
VM0118	5	1.15	3	208-230/460	184TC	1¼	1¼	22⅜	13⅝	6⅞	2⅞	38⅞	8½	172	150

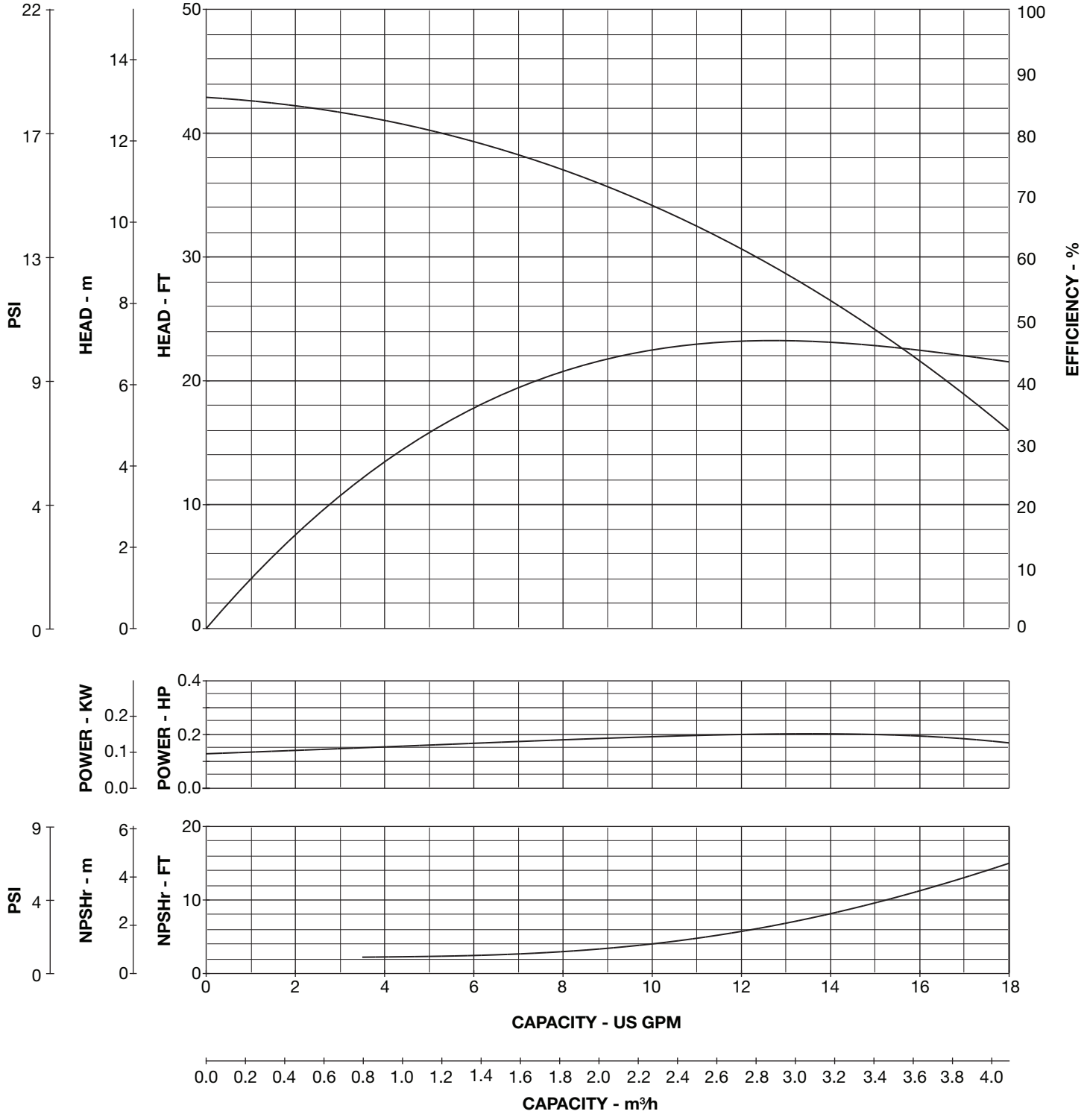
VM01 – Series Performance Curves

Nominal RPM: 3450
Based on Fresh Water @ 68°F
Maximum Working Pressure: 360 PSI

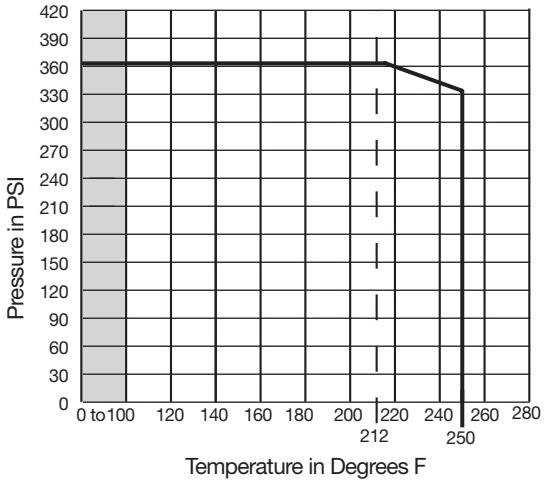


VM01 Series – Single Stage Performance Data

Nominal RPM: 3450
Based on Fresh Water @ 68°F
Maximum Working Pressure: 360 PSI



Permissible Operating Pressure Curves



Suggested Specifications:

Furnish and install vertical multistage radial split case pump(s) with the capacities and characteristics as shown on the plans. Pumps shall be TACO Model VM or approved equal.

All wetted surfaces of the pump shall be stainless steel or cast iron. The pump shall be fitted with replaceable TEFLON wear rings to insure alignment and to prevent impeller recirculation. The impeller shall be balanced by design and not require balancing in the field. The impeller(s) shall be 304 stainless steel.

The mechanical seal shall be a single unbalanced type that has a Carbon Graphite stationary seat and a Tungsten Carbide rotating face. The seal housing shall be manually vented upon startup so that air is not trapped in the area directly around the seal.

The pump shaft shall be a double flat stainless steel shaft. The shaft intermediate bearings and bearing ring shall be aluminum oxide ceramic and tungsten carbide, respectively, and be water lubricated.

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