



Submittal Data Information

VM04 Series Pumps

301-2002B

Single and Three Phase, 60 Cycle, 3450 RPM

SUPERSEDES: August 5, 2013

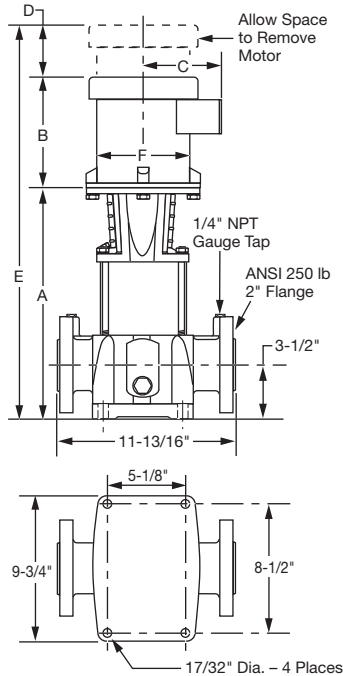
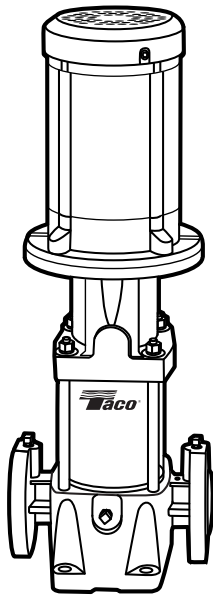
EFFECTIVE: December 16, 2013

JOB _____ MODEL _____

ENGINEER _____ CONTRACTOR _____ REP. _____

ITEM NO.	MODEL NO.	IMPELLER DIA.	G.P.M.	HEAD/FT.	H.P.	ELEC. CHARS.
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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 431 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

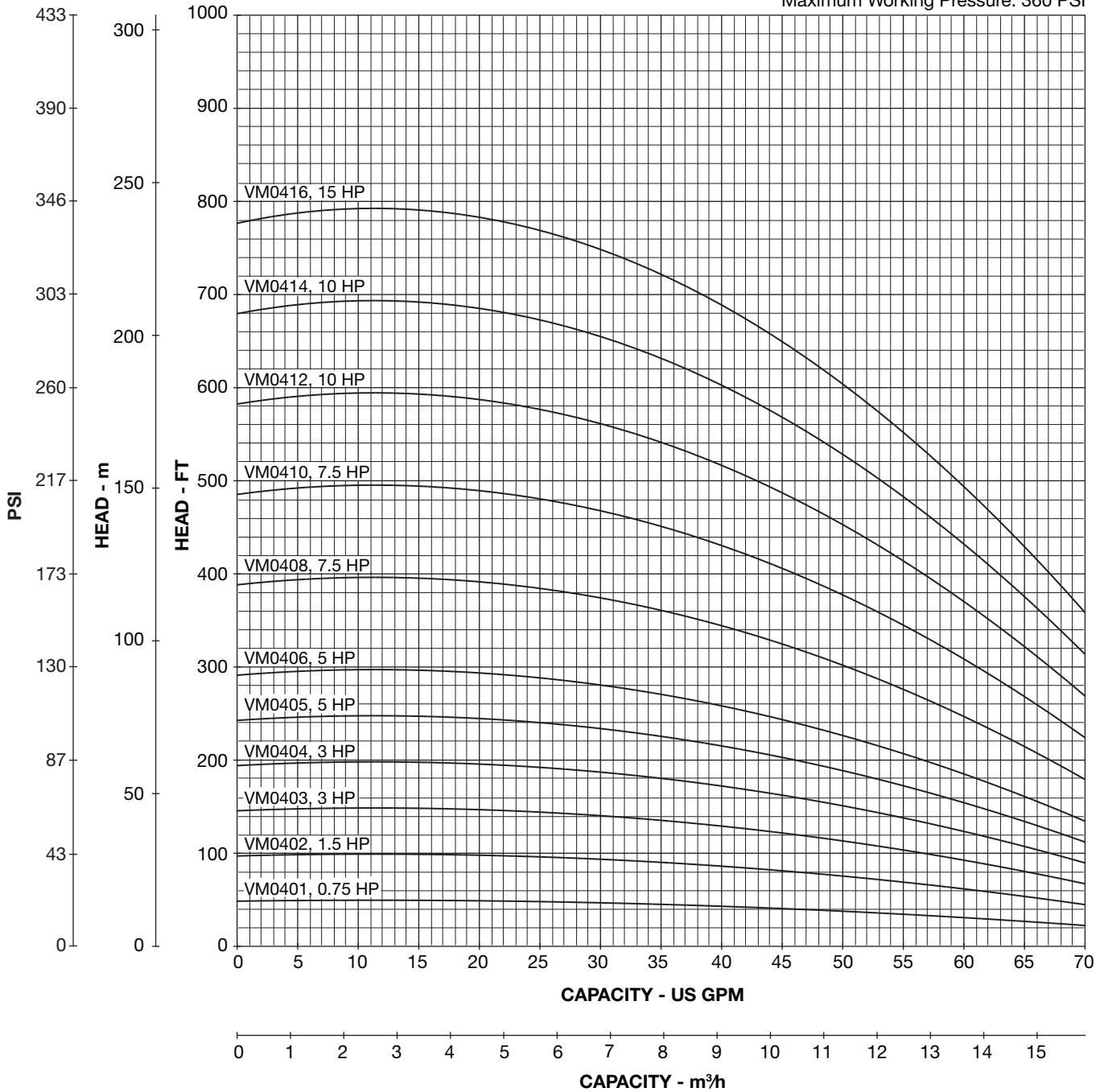
Max. Working Temp.	5°F (-15°C) to 250°F (120°C)
Max. Working Pressure	360 psi (25 Bar)
Min. Rate of Flow	5.3 GPM
Pipe Connections	2" CLASS 300

* 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		
VM0401	0.75	1.25	1	115/208-230	56C	2	2	15	9 ⁷ / ₈	4 ⁷ / ₈	2	27	6	104	97
VM0401	0.75	1.25	3	208-230/460	56C	2	2	15	9 ¹ / ₄	4 ⁷ / ₈	2	26 ³ / ₈	6	101	95
VM0402	1.5	1.25	1	115/208-230	56C	2	2	15	11 ¹ / ₈	5 ⁵ / ₈	2	28 ¹ / ₄	7 ¹ / ₈	118	110
VM0402	1.5	1.15	3	208-230/460	56C	2	2	15	10 ¹ / ₈	5 ³ / ₄	2 ¹ / ₈	27 ¹ / ₄	7 ¹ / ₄	113	100
VM0403	3	1.15	1	115/208-230	182TC	2	2	17 ³ / ₄	13 ⁵ / ₈	6 ⁷ / ₈	2 ³ / ₄	34 ¹ / ₈	8 ¹ / ₂	174	138
VM0403	3	1.15	3	208-230/460	182TC	2	2	17 ³ / ₄	12 ¹ / ₄	6 ⁷ / ₈	2 ⁷ / ₈	32 ⁷ / ₈	8 ¹ / ₂	153	118
VM0404	3	1.15	1	115/208-230	182TC	2	2	18 ⁷ / ₈	13 ⁵ / ₈	6 ⁷ / ₈	2 ³ / ₄	35 ³ / ₈	8 ¹ / ₂	179	144
VM0404	3	1.15	3	208-230/460	182TC	2	2	18 ⁷ / ₈	12 ¹ / ₄	6 ⁷ / ₈	2 ⁷ / ₈	34 ¹ / ₈	8 ¹ / ₂	158	124
VM0405	5	1.15	1	208-230	213TC	2	2	20 ¹ / ₈	15 ¹ / ₄	8	3 ³ / ₈	38 ³ / ₄	10 ⁵ / ₈	193	161
VM0405	5	1.15	3	208-230/460	184TC	2	2	20 ¹ / ₈	13 ⁵ / ₈	6 ⁷ / ₈	2 ⁷ / ₈	36 ⁵ / ₈	8 ¹ / ₂	190	152
VM0406	5	1.15	1	208-230	213TC	2	2	21 ¹ / ₄	15 ¹ / ₄	8	3 ³ / ₈	40	10 ⁵ / ₈	235	167
VM0406	5	1.15	3	208-230/460	184TC	2	2	21 ¹ / ₄	13 ⁵ / ₈	6 ⁷ / ₈	2 ⁷ / ₈	37 ⁷ / ₈	8 ¹ / ₂	203	158
VM0408	7.5	1.15	1	208-230	213TC	2	2	23 ⁵ / ₈	15 ¹ / ₄	8	3 ³ / ₈	42 ¹ / ₄	10 ⁵ / ₈	244	223
VM0408	7.5	1.15	3	208-230/460	213TC	2	2	23 ⁵ / ₈	15 ¹ / ₄	7 ⁷ / ₈	3 ³ / ₈	42 ¹ / ₄	10 ³ / ₈	222	195
VM0410	7.5	1.15	1	208-230	213TC	2	2	26	15 ¹ / ₄	8	3 ³ / ₈	44 ⁵ / ₈	10 ⁵ / ₈	254	235
VM0410	7.5	1.15	3	208-230/460	213TC	2	2	26	15 ¹ / ₄	7 ⁷ / ₈	3 ³ / ₈	44 ⁵ / ₈	10 ³ / ₈	226	206
VM0412	10	1.15	1	208-230	215TC	2	2	28 ³ / ₈	16 ³ / ₈	8 ³ / ₄	3 ³ / ₈	48 ¹ / ₈	10 ⁵ / ₈	294	265
VM0412	10	1.15	3	208-230/460	215TC	2	2	28 ³ / ₈	15 ¹ / ₄	8	3 ³ / ₈	47	10 ³ / ₈	255	227
VM0414	10	1.15	1	208-230	215TC	2	2	30 ³ / ₄	16 ³ / ₈	8 ³ / ₄	3 ³ / ₈	50 ¹ / ₂	10 ⁵ / ₈	300	275
VM0414	10	1.15	3	208-230/460	215TC	2	2	30 ³ / ₄	15 ¹ / ₄	8	3 ³ / ₈	49 ³ / ₈	10 ³ / ₈	340	273
VM0416	15	1.15	3	208-230/460	254TC	2	2	33 ⁵ / ₈	19 ⁵ / ₈	9 ¹ / ₂	4 ¹ / ₄	57 ¹ / ₂	13	350	306

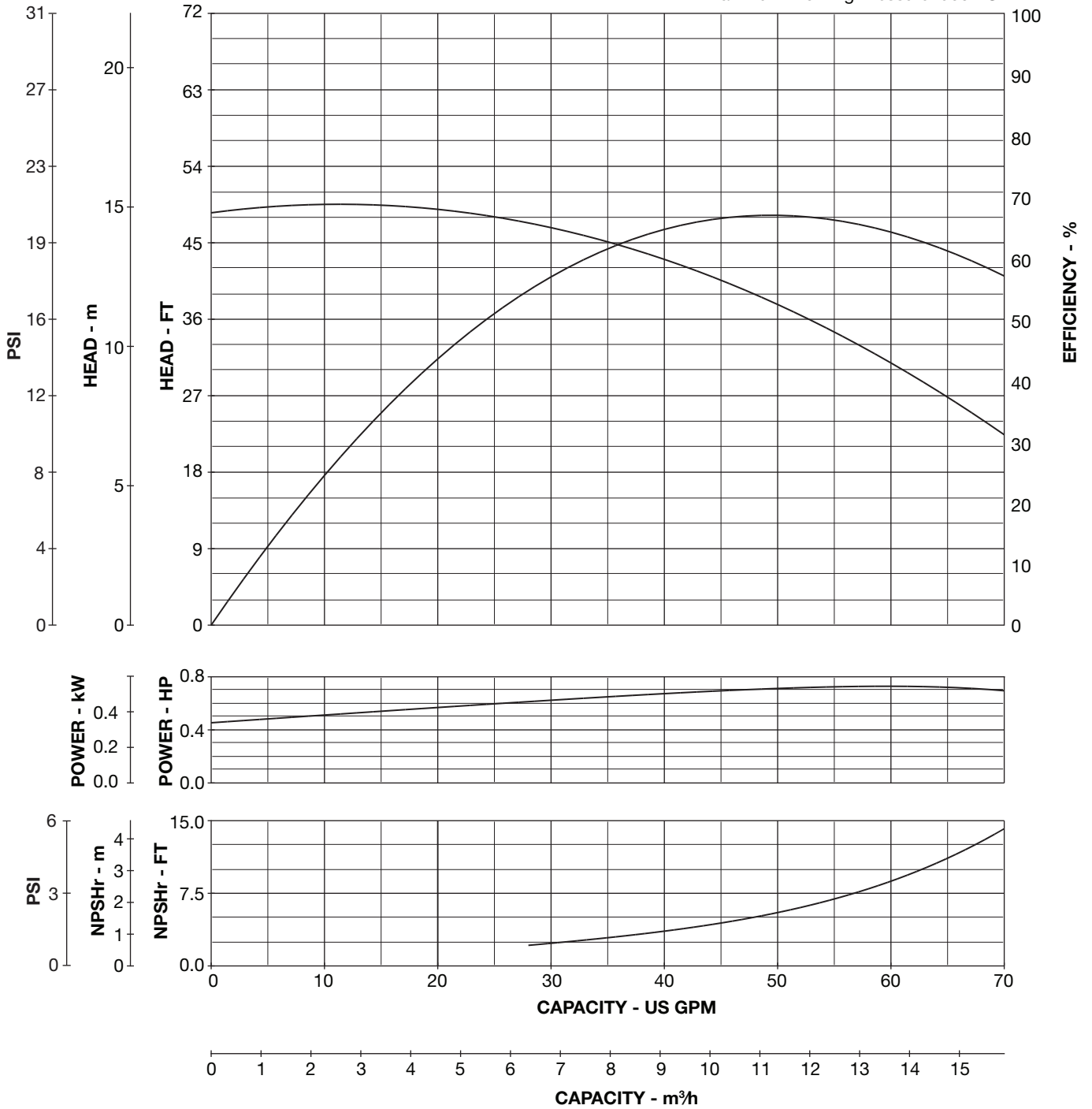
VM04 – Series Performance Curves

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

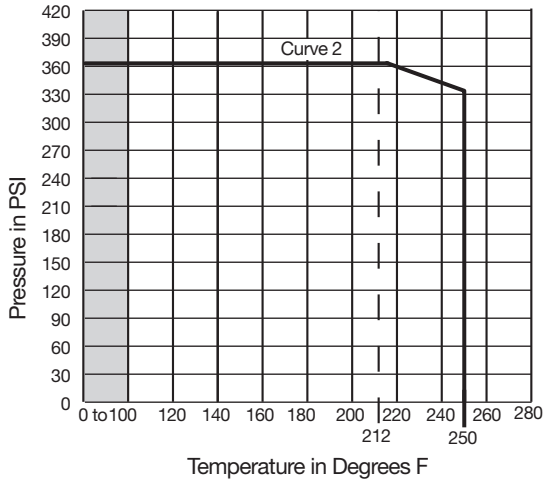


VM04 Series – Single Stage Performance Data

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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