

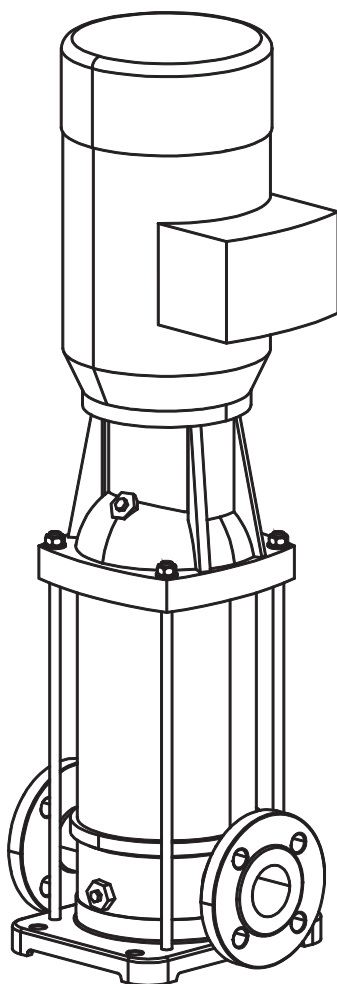


4710 SERIES

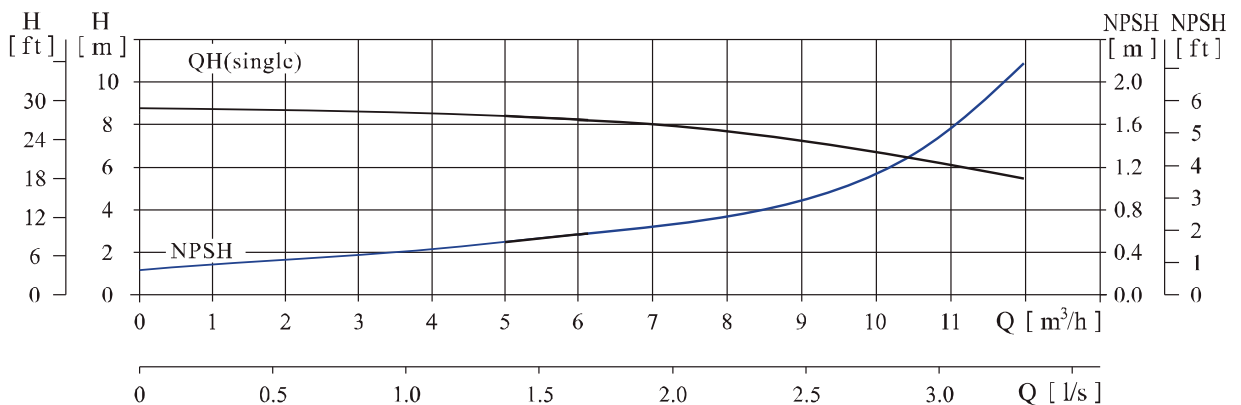
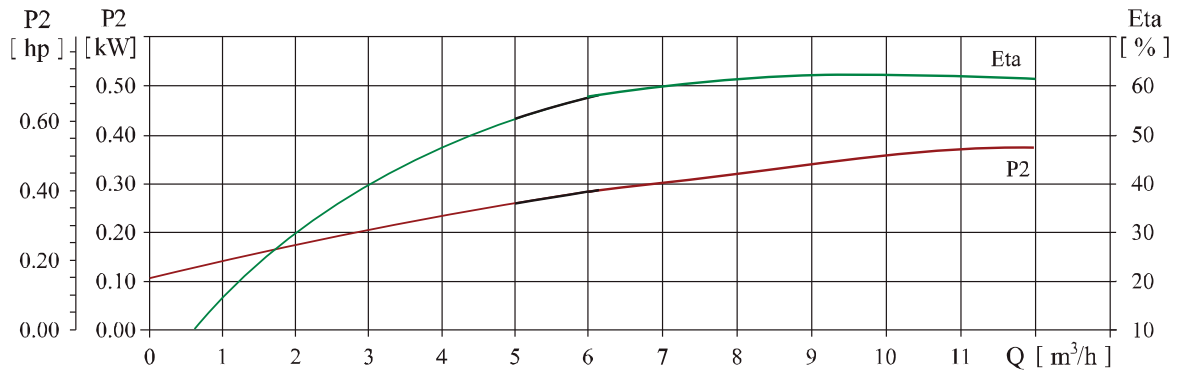
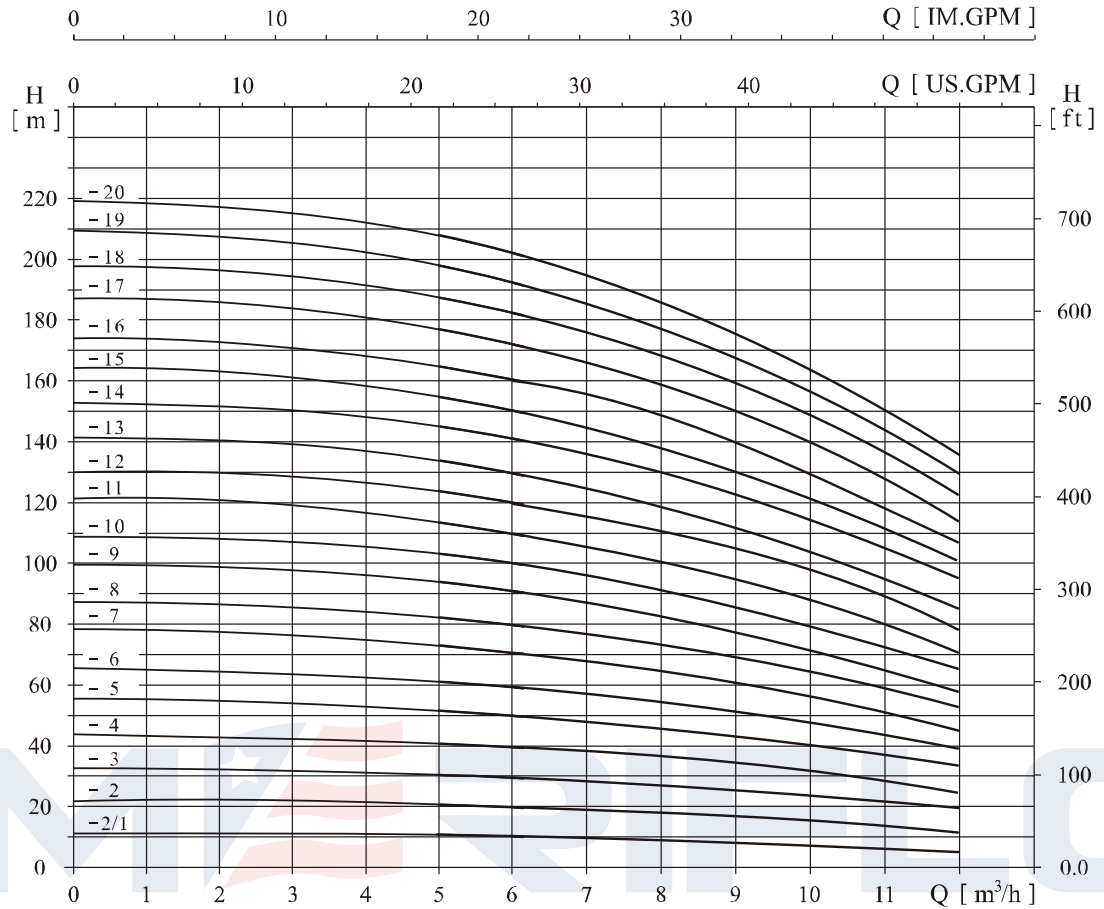
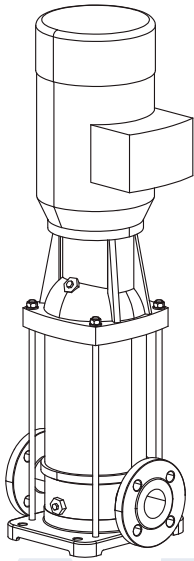
VERTICAL MULTISTAGE PUMPS

VM8

ENGINEERING INFORMATION



VM8 (1.5x1.5) 2900 RPM

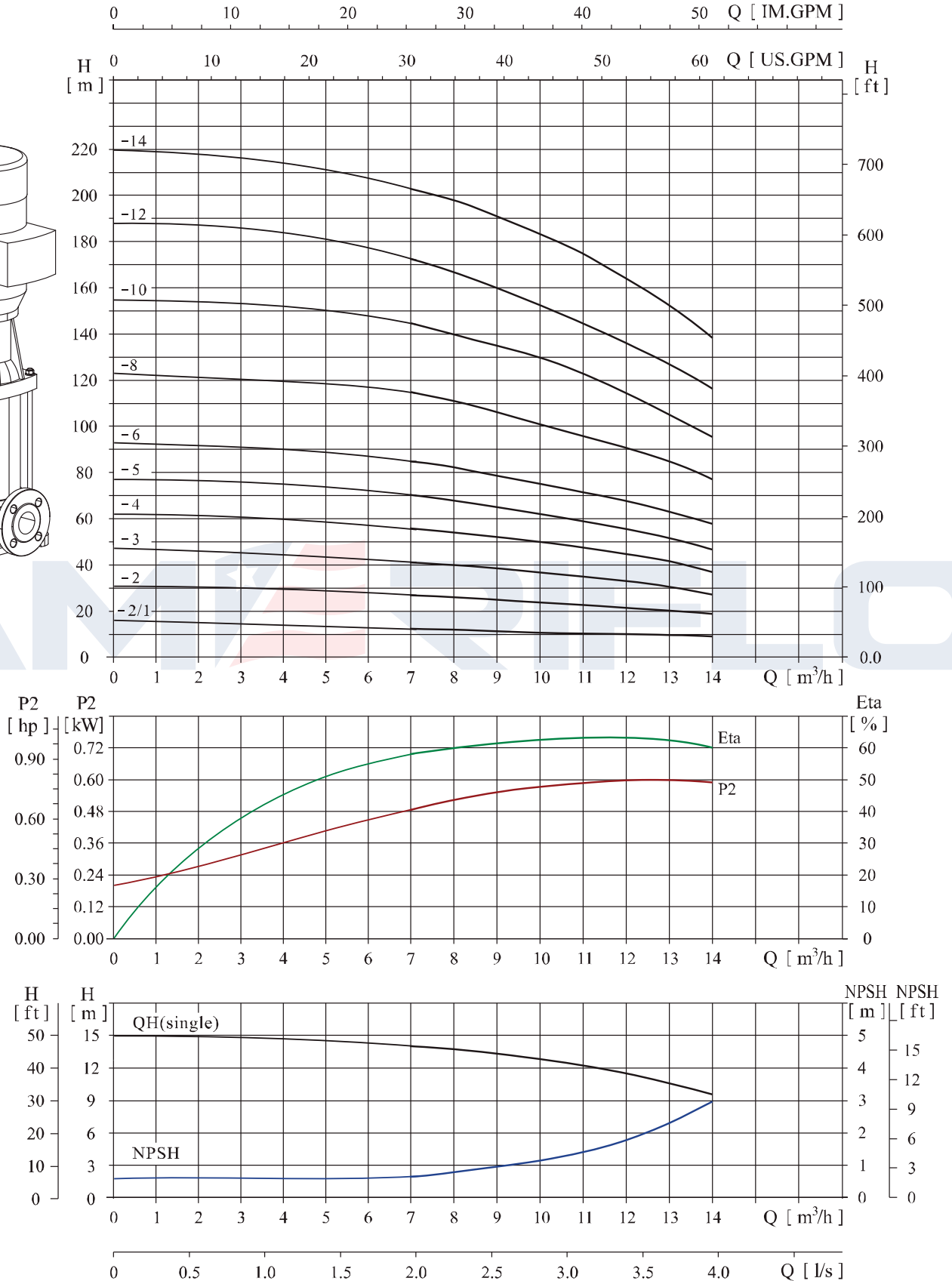
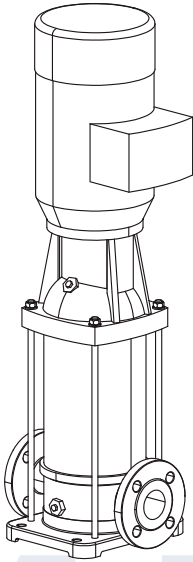


MODEL VM8 - PERFORMANCE TABLE (2900 RPM)

MODEL	SPEED	MOTOR HP	FLOW GPM	25	30	35	40	45	50	55	
VM8-2/1	2900	1	HEAD (PSI)	13	13	134	12	11	10	9	
VM8-2		1		28	27	26	24	23	20	18	
VM8-3		1.5		42	40	38	36	34	30	27	
VM8-4		2		56	54	51	48	45	40	37	
VM8-5		3		71	68	64	60	57	51	45	
VM8-6		3		85	81	77	72	68	61	55	
VM8-8		5		114	109	104	98	92	82	74	
VM8-10		5		142	138	131	124	115	104	92	
VM8-12		5		170	165	158	148	131	124	111	
VM8-14		7.5		200	193	185	173	160	145	131	
VM8-16		7.5		229	222	210	197	185	168	151	
VM8-18		10		258	249	237	223	207	190	170	
VM8-20		10		287	277	264	249	232	213	191	



VM8 (1.5x1.5) 3500 RPM



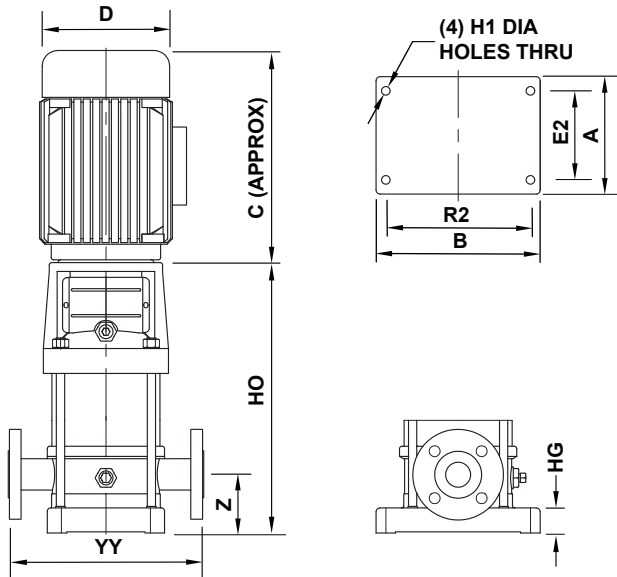
MODEL VM8 - PERFORMANCE TABLE (3500 RPM)

MODEL	SPEED	MOTOR HP	FLOW GPM	30	35	40	45	50	55	60	
VM8-2/1	3500	1	HEAD (PSI)	18	17	16	16	15	14	13	
VM8-2		2		38	37	36	34	33	31	26	
VM8-3		3		58	57	54	53	50	47	40	
VM8-4		5		78	77	74	71	67	64	54	
VM8-5		5		99	97	92	89	84	80	67	
VM8-6		5		121	117	111	108	102	97	81	
VM8-8		7.5		163	156	149	143	138	129	107	
VM8-10		10		206	199	187	179	173	163	135	
VM8-12		10		246	237	227	216	209	187	163	
VM8-14		15		287	277	267	254	247	232	192	



MODEL VM8 - VERTICAL MULTISTAGE, ELECTRIC NEMA MOTOR

GENERAL ARRANGEMENT DRAWING



FLANGE DRILLING STANDARD & DETAILS						
SUCT	250# ANSI		DISC	250# ANSI		
	SIZE	RF DIA	P.C.D	# HOLES	SIZE	
SUCT	1.50	2.875	4.500	4	0.750	
DISC	1.50	2.875	4.500	4	0.750	
FORCES (LBS) & MOMENTS (LB-Feet)						
	Fx	Fy	Fz	Mx	My	Mz
SUCT	160	130	200	340	170	260
DISC	160	130	200	340	170	260

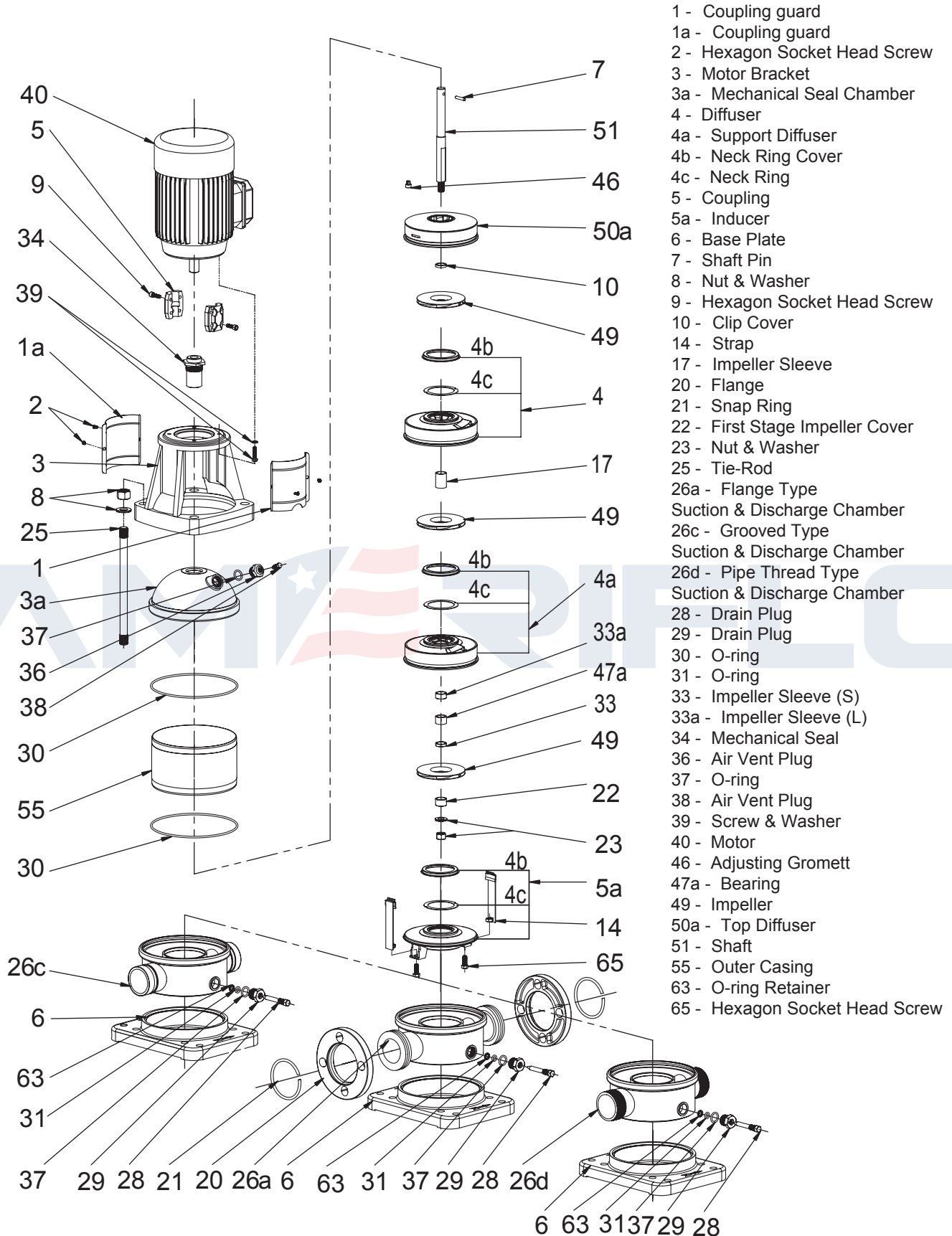
VM8

MODEL	SPEED RPM	A	B	C	D	E2	H1	HG	HO	R2	YY	Z	WEIGHT LBS
VM8-2/1	2900 3500	7.813	9.750	9.625	6.750	5.188	0.500	1.000	13.750	8.500	11.000	3.188	71
VM8-2		7.813	9.750	9.625	6.750	5.188	0.500	1.000	13.750	8.500	11.000	3.188	84
VM8-3		7.813	9.750	9.625	6.750	5.188	0.500	1.000	14.875	8.500	11.000	3.188	90
VM8-4		7.813	9.750	11.413	7.500	5.188	0.500	1.000	16.413	8.500	11.000	3.188	108
VM8-5		7.813	9.750	11.413	7.500	5.188	0.500	1.000	17.625	8.500	11.000	3.188	110
VM8-6		7.813	9.750	11.413	7.500	5.188	0.500	1.000	18.750	8.500	11.000	3.188	127
VM8-8		7.813	9.750	13.625	7.750	5.188	0.500	1.000	21.500	8.500	11.000	3.188	157
VM8-10		7.813	9.750	14.000	9.000	5.188	0.500	1.000	23.875	8.500	11.000	3.188	176
VM8-12		7.813	9.750	14.000	9.000	5.188	0.500	1.000	26.250	8.500	11.000	3.188	178
VM8-14		7.813	9.750	15.375	10.250	5.188	0.500	1.000	29.438	8.500	11.000	3.188	181
VM8-16		7.813	9.750	15.375	10.250	5.188	0.500	1.000	31.750	8.500	11.000	3.188	185
VM8-18		7.813	9.750	15.375	10.250	5.188	0.500	1.000	34.188	8.500	11.000	3.188	205
VM8-20		7.813	9.750	15.375	10.250	5.188	0.500	1.000	36.500	8.500	11.000	3.188	207

NOTES:

ALL DIMENSIONS ARE IN INCHES [MM] AND MAY VARY ±0.375 INCHES.

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED BY AMERIFLO.

MODEL VM8 - SECTIONAL VIEW

MODEL VM8 - SECTIONAL VIEW PART REFERENCE

ITEM NUMBER	PART NAME	MATERIAL	
		VM (304SS)	VM (316 SS)
1 & 1a	Coupling Guard	304 SS (EN 1.4301)	
2	Hexagon Socket Head Screw	A2-70 UNI 7323	
3	Motor Bracket	304 SS (EN 1.4301)	316 SS (EN 1.4401)
3a	Mechanical Seal Chamber		
4	Diffuser	304 SS (EN 1.4301)	316 SS (EN 1.4401)
4a	Support Diffuser	304 SS (EN 1.4301)	316 SS (EN 1.4401)
4b	Neck Ring Base Assembly	304 SS (EN 1.4301)	316 SS (EN 1.4401)
4c	Neck Ring	FPM	
5	Coupling	Die Cast Aluminum EN AB-AISI11Cu ₂ (Fe)	
5a	Inducer	304 SS (EN 1.4301)	316 SS (EN 1.4401)
6	Flanged Type Base Plate	Die Cast Aluminum EN AB-AISI11Cu ₂ (Fe)	
7	Shaft Pin	304 SS (EN 1.4301)	316 SS (EN 1.4401)
8	Nut (M8) & Washer (M8)	A2-70 UNI 7323	
9	Hexagon Socket Head Screw	A2-70 UNI 7323	
10	Clip Cover	304 SS (EN 1.4301)	316 SS (EN 1.4401)
20	Flange	Cast Iron	
21	Snap Ring	304 SS (EN 1.4301)	
22	First Stage Impeller Cover	304 SS (EN 1.4301)	316 SS (EN 1.4401)
23	Nut (M8) & Washer (M8)	A2-70 UNI 7323	
25	Tie-Rod	Galvanized Steel 6.8 Strength Class ISO 898/1	
26a	Flanged Type Suction & Discharge Chamber	304 SS (EN 1.4301)	316 SS (EN 1.4401)
26c	Grooved Type Suction & Discharge Chamber	304 SS (EN 1.4301)	316 SS (EN 1.4401)
26d	Pipie Thread Type Suction & Discharge Chamber	304 SS (EN 1.4301)	316 SS (EN 1.4401)
28	Drain Plug (M10)	304 SS (EN 1.4301)	316 SS (EN 1.4401)
29	Drain Plug	304 SS (EN 1.4301)	316 SS (EN 1.4401)
30	O-Ring	FPM	
31	O-Ring	FPM	
33	Impeller Sleeve (Small)	Tungsten Carbide	
33a	Impeller Sleeve (Large)	Tungsten Carbide	
34	Mechanical Seal	Silicon Carbide / Carbon / FPM	
36	Air Vent Plug	304 SS (EN 1.4301)	316 SS (EN 1.4401)
37	O-Ring	FPM	
38	Air Vent Plug	304 SS (EN 1.4301)	316 SS (EN 1.4401)
39	Screw & Washer	Galvanized Steel	
40	Motor	Refer To Motor Manufacturer	
46	Adjusting Gromett	FPM	
47a	Bearing	Tungsten Carbide	
49	Impeller	304 SS (EN 1.4301)	316 SS (EN 1.4401)
50a	Top Diffuser	304 SS (EN 1.4301)	316 SS (EN 1.4401)
51	Shaft	304 SS (EN 1.4301)	316 SS (EN 1.4401)
55	Outer Casing	304 SS (EN 1.4301)	316 SS (EN 1.4401)
63	O-ring Retainer	304 SS (EN 1.4301)	316 SS (EN 1.4401)
65	Hexagon Socket Head Screw	A2-70 UNI 7323	

MODEL VM8 - ENGINEERING INFORMATION

PUMP MODEL	OPERATING TEMPERATURE RANGE	MECHANICAL SEAL TYPE	MECHANICAL SEAL MATERIAL				
			ROTATING FACE	STATIONARY FACE	ELASTOMERS	SPRING	COLLAR
VM8	+5°F TO +248°F [-15°C TO +120°C]	BALANCED	SILICON CARBIDE	CARBON	FPM	316 SS	316 SS

RATED FLOW:	35.2 GPM [8 M ³ /HR]
FLOW RANGE:	31 - 62 GPM [7 - 14 M ³ /HR]
MAXIMUM PRESSURE:	290 PSI [20 BAR]
MAXIMUM POWER:	1 - 1.5 HP [0.75 - 1.1 KW]
MAXIMUM EFFICIENCY:	62%

