

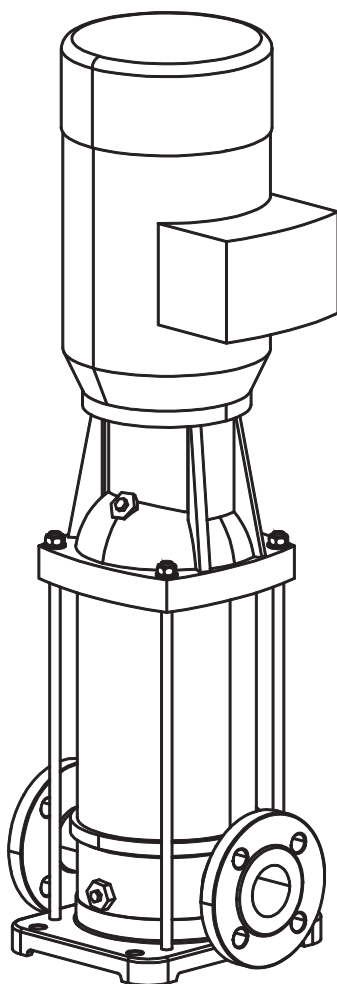


4710 SERIES

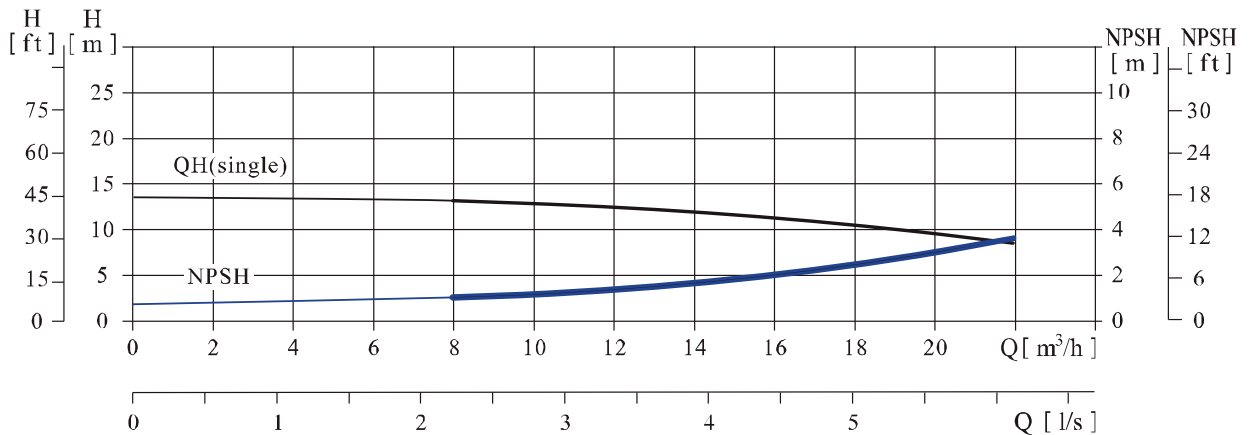
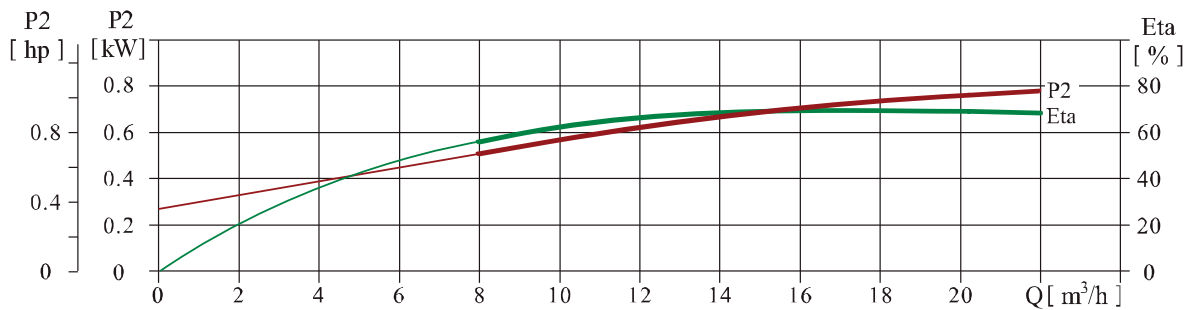
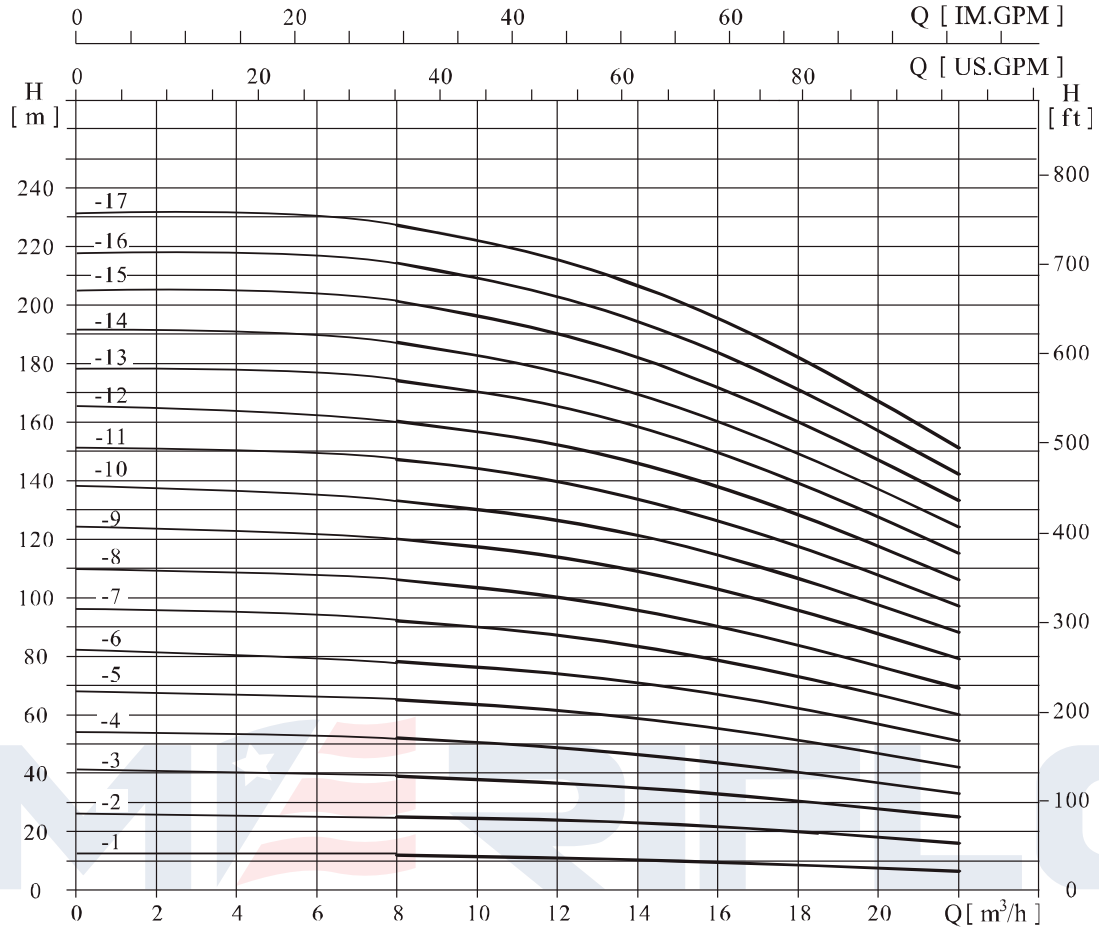
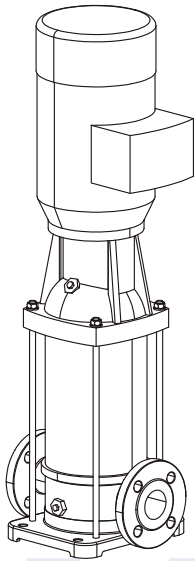
VERTICAL MULTISTAGE PUMPS

VM15

ENGINEERING INFORMATION



VM15 (2x2) 2900 RPM

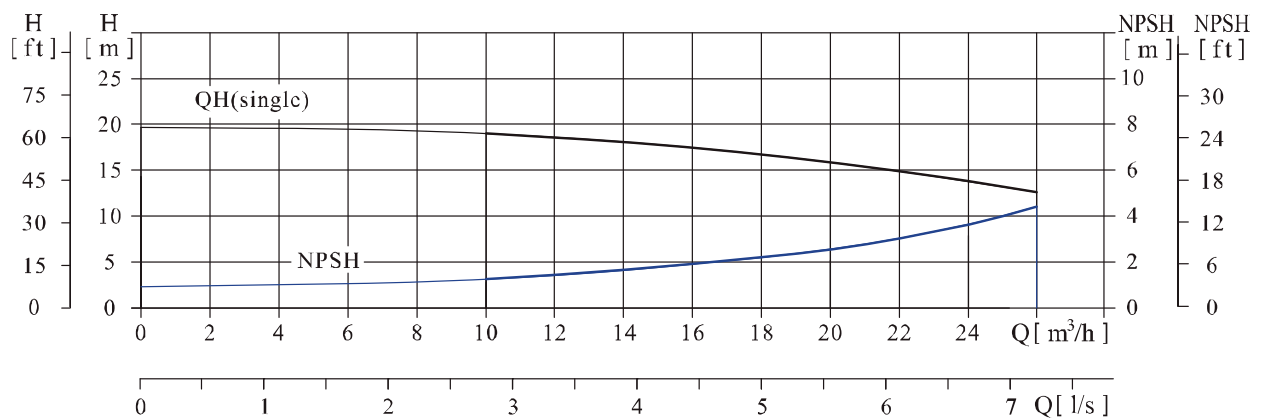
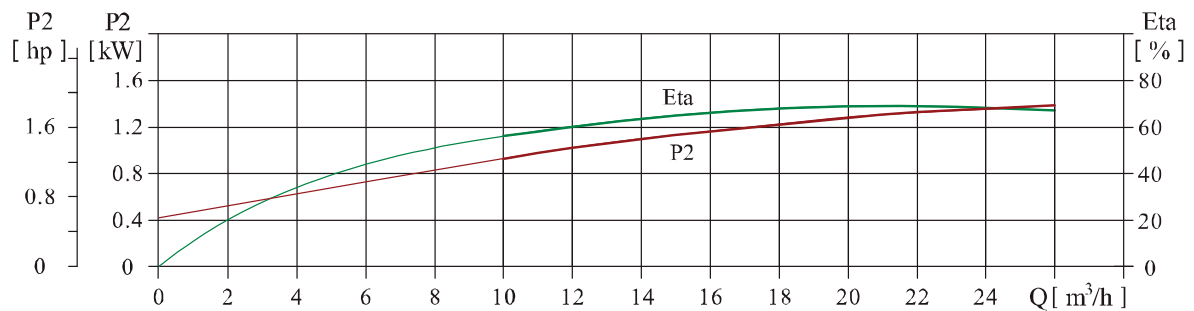
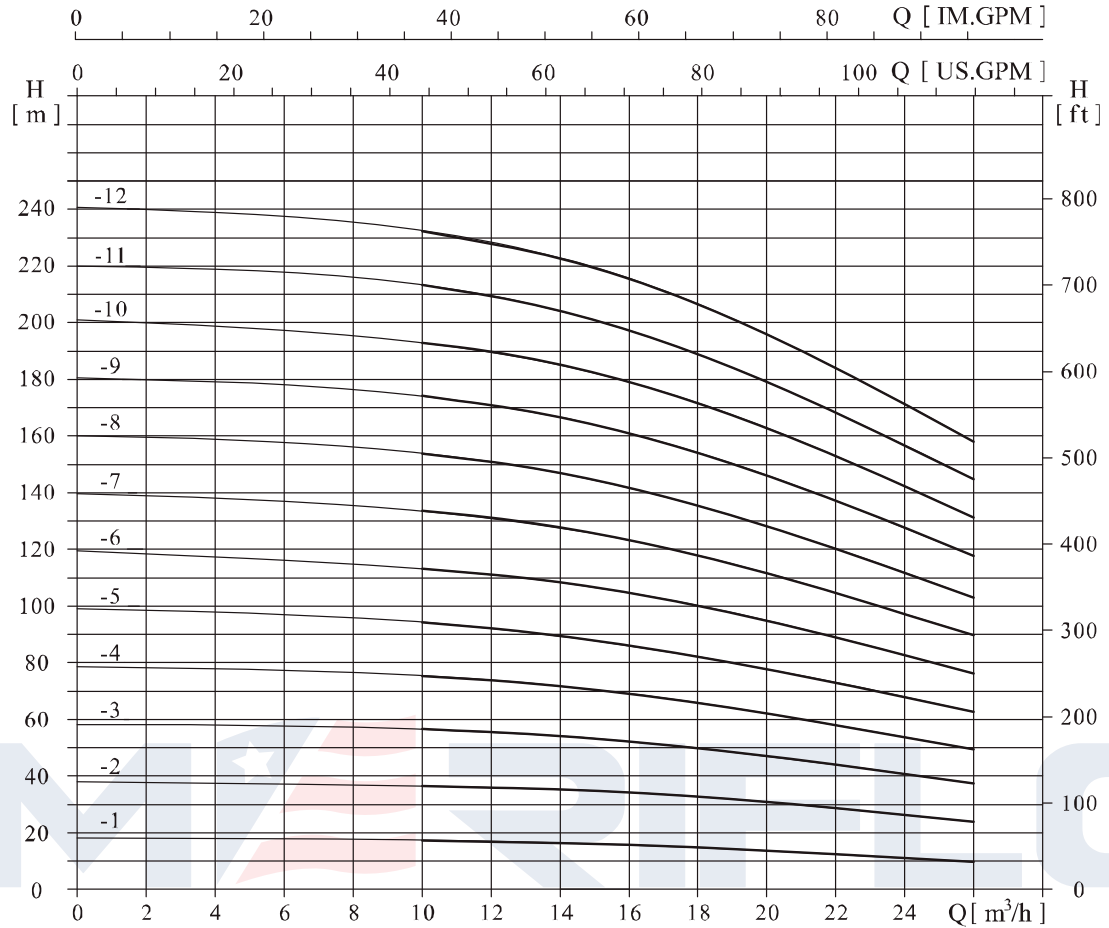
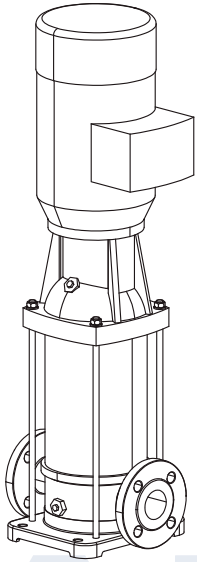


MODEL VM15 - PERFORMANCE TABLE (2900 RPM)

MODEL	SPEED	MOTOR	FLOW	50	55	60	65	70	80	90	
		HP	GPM								
VM15-1	2900	1.5	HEAD (PSI)	16	16	15	14	13	12	11	
VM15-2		3		34	34	33	32	31	28	26	
VM15-3		5		53	53	51	48	47	43	40	
VM15-4		5		71	70	67	64	62	57	53	
VM15-5		5		88	87	85	81	78	72	67	
VM15-6		7.5		107	105	102	98	95	88	81	
VM15-7		7.5		121	124	121	115	112	104	95	
VM15-8		10		139	142	139	132	128	119	109	
VM15-9		10		159	162	158	151	146	135	124	
VM15-10		15		164	179	175	168	162	151	138	
VM15-12		15		182	216	212	202	196	182	166	
VM15-14		15		255	251	246	234	227	212	195	
VM15-17		20		310	305	299	285	277	258	237	



VM15 (2x2) 3500 RPM



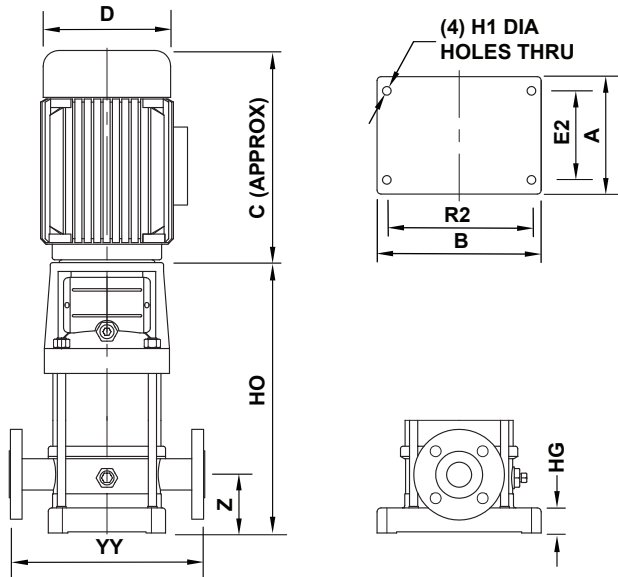
MODEL VM15 - PERFORMANCE TABLE (3500 RPM)

MODEL	SPEED	MOTOR	FLOW	50	55	60	65	70	80	90	100
		HP	GPM								
VM15-1	3500	2	HEAD (PSI)	24	24	23	23	22	21	20	17
VM15-2		5		51	51	50	50	49	47	44	40
VM15-3		5		79	78	76	75	74	71	67	60
VM15-4		7.5		106	105	103	101	98	94	88	80
VM15-5		10		132	131	127	125	124	118	112	101
VM15-6		15		159	158	155	152	149	143	135	122
VM15-7		15		188	186	183	179	176	168	159	146
VM15-8		15		216	214	209	205	202	193	183	165
VM15-9		20		245	243	238	233	229	220	209	188
VM15-10		20		272	270	265	259	256	244	232	149
VM15-12		25		327	324	317	311	307	294	280	253



MODEL VM15 - 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	2.00	3.625	5.000	8	0.625	
DISC	2.00	3.625	5.000	8	0.625	
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

VM15

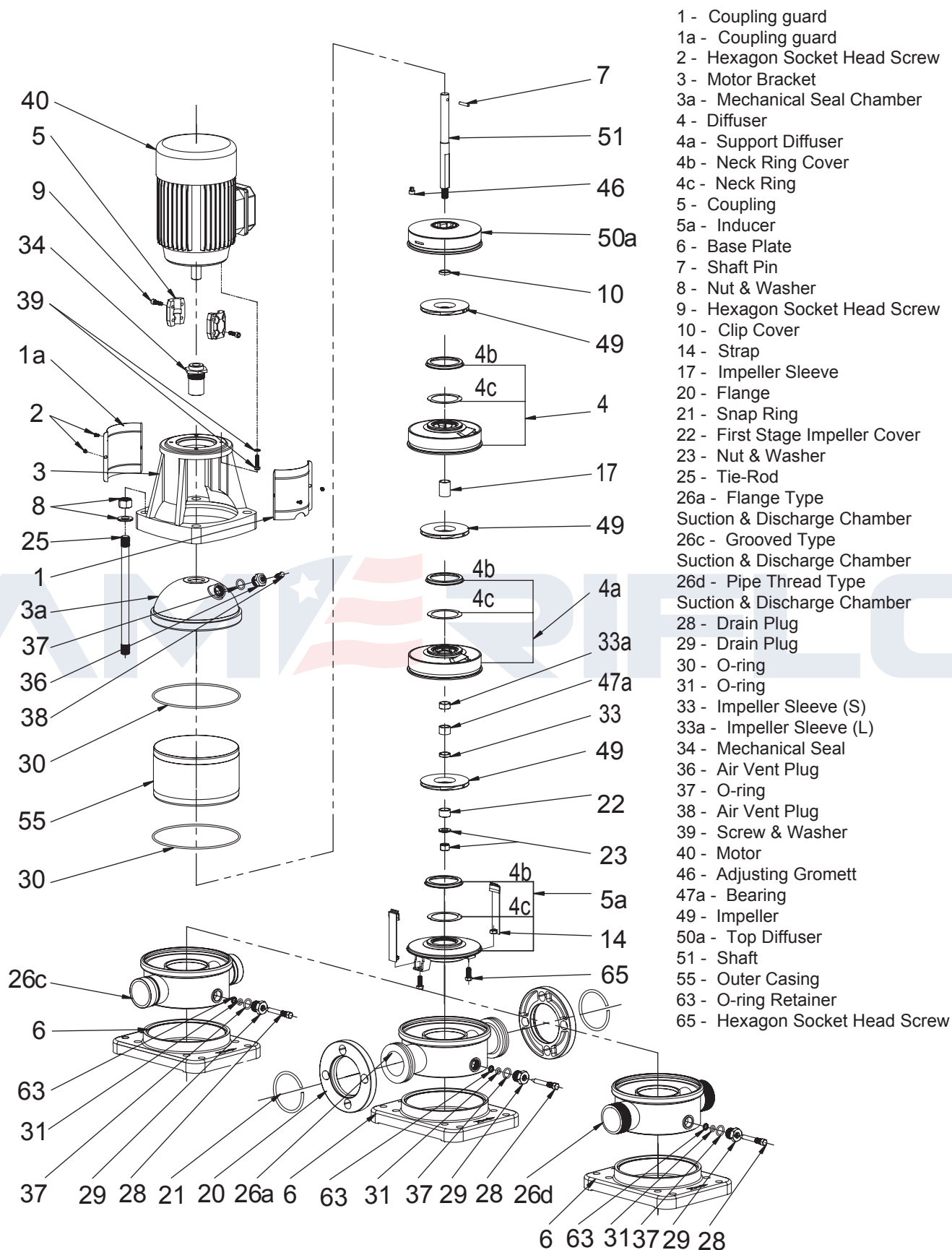
MODEL	SPEED	A	B	C	D	E2	H1	HG	HO	R2	YY	Z	WEIGHT
	RPM												LBS
VM15-1	2900 3500	7.875	9.750	9.750	6.750	5.188	0.500	1.375	15.250	8.500	11.813	3.500	73
VM15-2		7.875	9.750	11.413	7.500	5.188	0.500	1.375	15.625	8.500	11.813	3.500	93
VM15-3		7.875	9.750	13.625	7.750	5.188	0.500	1.375	17.750	8.500	11.813	3.500	112
VM15-4		7.875	9.750	14.000	9.000	5.188	0.500	1.375	19.625	8.500	11.813	3.500	132
VM15-5		7.875	9.750	14.000	9.000	5.188	0.500	1.375	21.375	8.500	11.813	3.500	137
VM15-6		7.875	9.750	15.375	10.250	5.188	0.500	1.375	23.875	8.500	11.813	3.500	172
VM15-7		7.875	9.750	15.375	10.250	5.188	0.500	1.375	25.625	8.500	11.813	3.500	176
VM15-8		7.875	9.750	15.375	10.250	5.188	0.500	1.375	27.500	8.500	11.813	3.500	190
VM15-9		7.875	9.750	15.375	10.250	5.188	0.500	1.375	29.250	8.500	11.813	3.500	194
VM15-10		7.875	9.750	19.688	13.000	5.188	0.500	1.375	34.438	8.500	11.813	3.500	1929
VM15-12		7.875	9.750	19.688	13.000	5.188	0.500	1.375	38.000	8.500	11.813	3.500	2127
VM15-14		7.875	9.750	19.688	13.000	5.188	0.500	1.375	41.500	8.500	11.813	3.500	2326
VM15-17		7.875	9.750	19.688	13.000	5.188	0.500	1.375	46.875	8.500	11.813	3.500	2624

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 VM15 - SECTIONAL VIEW



MODEL VM15 - 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 VM15 - ENGINEERING INFORMATION

PUMP MODEL	OPERATING TEMPERATURE RANGE	MECHANICAL SEAL TYPE	MECHANICAL SEAL MATERIAL				
			ROTATING FACE	STATIONARY FACE	ELASTOMERS	SPRING	COLLAR
VM15	+5°F TO +248°F [-15°C TO +120°C]	BALANCED	SILICON CARBIDE	CARBON	FPM	316 SS	316 SS

RATED FLOW:	66 GPM [15 M ³ /HR]
FLOW RANGE:	44 - 114 GPM [10 - 26 M ³ /HR]
MAXIMUM PRESSURE:	290 PSI [20 BAR]
MAXIMUM POWER:	2 - 20 HP [1.5 - 18.5 KW]
MAXIMUM EFFICIENCY:	70%

