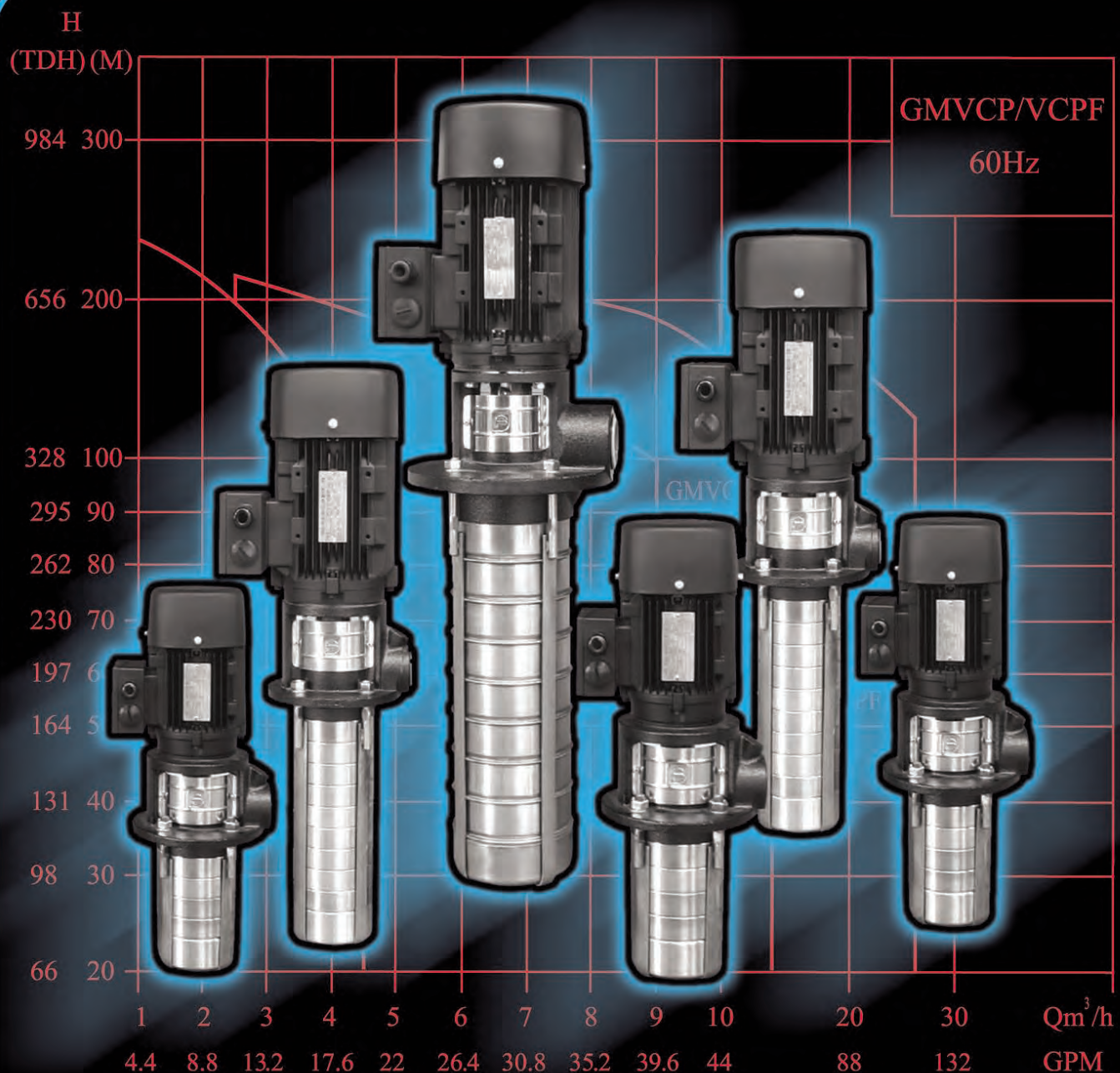


# PERFORMANCE DRIVEN **PUMPS**



**STAINLESS STEEL VERTICAL IMMERSION PUMPS**  
SPECIFICATIONS in U.S. and METRIC MEASUREMENTS





**RUTHMAN  
COMPANIES**



**GUSHER<sup>®</sup>  
PUMPS**

**A RUTHMAN COMPANY**

60Hz

GMVCP

GMVCP

GMVCP16

GMVCP

GMVCPF2

20

10

9

8

7

6

5

20

50

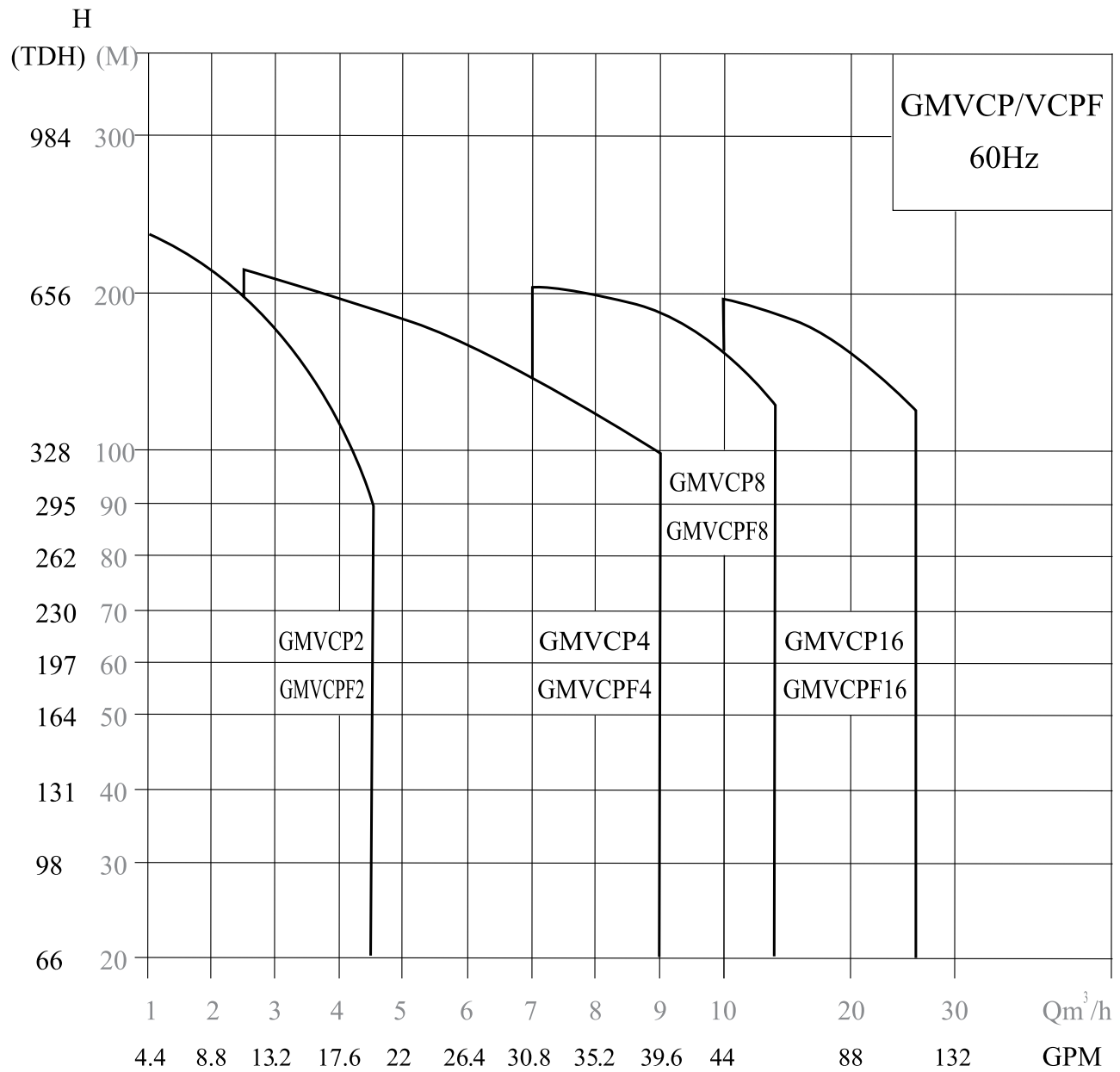
60

0

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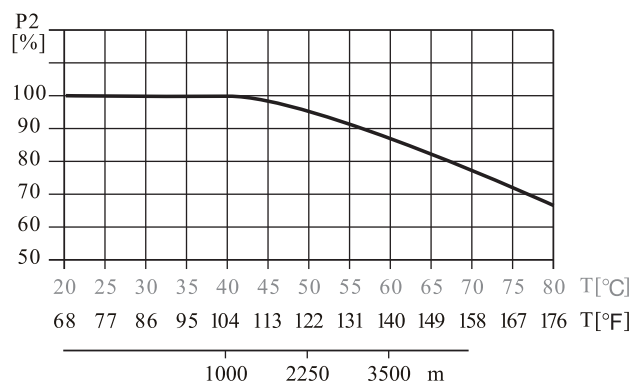
## Performance Range - 60 Hz





## Product Range and Materials for 60 Hertz

Description	GMVCP2	GMVCP4	GMVCP8	VCP16
Rated Flow m <sup>3</sup> /h	2	4	8	16
Rated Flow GPM	8.8	18	35.2	70.4
Rated Flow l/s	0.56	1.1	2.2	4.4
Rated Flow Gallons	.15	.29	.58	1.16
Flow Range m <sup>3</sup> /h	1~4.5	2.5~9	7~14	10~26
Flow Range GPM	4.4~19.8	11~39.6	30.8~61.6	44~114.4
Flow Range l/s	0.28~1.25	0.7~2.5	1.9~3.9	2.8~7.2
Flow Range Gallons	.07~.33	.18~.66	.5~1.03	.74~1.90
Maximum Pressure (Bar)	23.5	21	20	20
Maximum Pressure (PSI)	340.75	304.5	290	290
Maximum Power KW	0.55~4	0.75~5.5	0.75~11	2.2~18.5
Maximum Power HP	.74~5.36	1.01~7.38	1.01~14.75	2.95~24.81
Temperature Range C	-15 ~ +120			
Temperature Range F	5° ~ 248°			
Maximum Efficiency	46	59	64	70
<b>Materials of Construction</b>				
ASTM 25B Pump Head Cast Iron	●	●	●	●
AISI 304 Stainless Steel Pump Head	●	●	●	●
NPT Pipe Connections	1-1/4 "	1-1/4 "	2 "	2 "



## Application

GMVCP/GMVCPF pumps are used for conveying cooling liquids, lubricating liquids, condensed water, machine tool coolant, industrial cleaning solvents, or other cases where applications for immersed pumps are suitable. Also for applications at various temperatures, flow or pressure ranges. GMVCPF pumps are applicable to low corrosive fluids.

- Proven applications are for CNC lathe coolants, grinding machines, processing centers, heat exchangers, industrial cleaning equipment, reverse osmosis, filtering, golf courses, agriculture, high rise buildings, pools, and car washes.

## Operation Conditions

- Thin, clean non-explosive liquid without solid grains and fibers can be used for conveying of water, cooling water solutions and cutting fluids.

- Liquid temperatures:

Normal Temperature Type :  $-15^{\circ}\text{C} \sim +70^{\circ}\text{C} \dots +5^{\circ}\text{F} \sim +158^{\circ}\text{F}$

Hot Water Type:  $+70^{\circ}\text{C} \sim 120^{\circ}\text{C} \dots +158^{\circ}\text{F} \sim +248^{\circ}\text{F}$

## Pump

GMVCP/GMVCPF pumps are non-self priming multi-stage centrifugal pump installed with standard TEFC motors. The motor shaft is directly connected to the pump shaft through a coupling. According to the requirements, the pump can be equipped with intelligent monitoring, which protects the pump from running dry, phase loss, and overloads. In order to meet the requirement of the installation and depth of the water tank or vessel, pumps can be provided with empty body cavities to change the length (L) of the pump. The lengths for the different number of stages is shown in the Size and Weight Tables for each GMVCP/VCPF Series. See Index.

## Motor

- The standard motors are TEFC (Totally Enclosed Fan Cooled) 2 pole, 3450RPM, junction boxes are equipped with terminal strips.
- Protection Class: IEC - IP55 TEFC
- Insulation Class:F
- Standard 60 Hz Voltages:  $3 \times 220 - 230/346 - 440\text{V}$   
 $\times 220 - 255/380 - 440\text{V}$   
 $\times 220 - 277/380 - 480\text{V}$

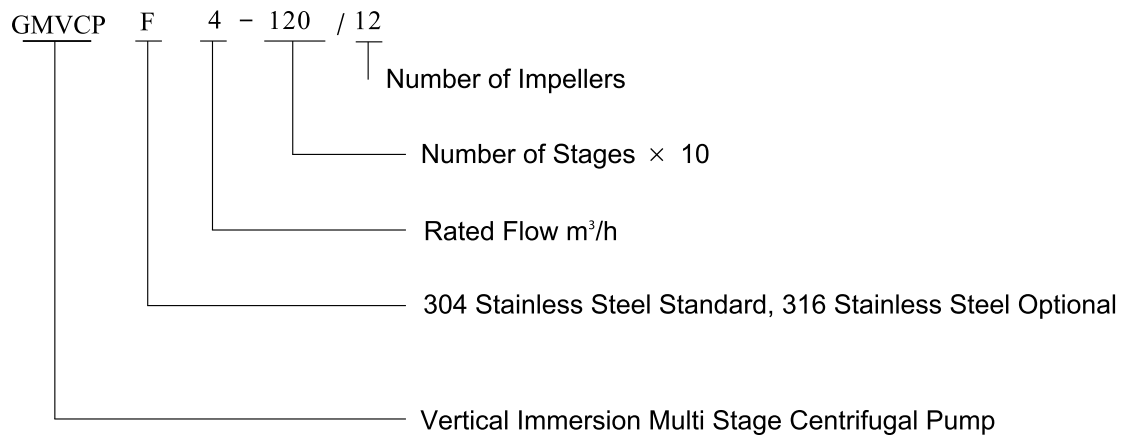
Motors for other voltages can be supplied according to the requirement.

Single phase motors with 0.37 ~ 2.2kW are available.

## Max. Ambient Temperature

If the pump operates in ambient temperature conditions higher than  $40^{\circ}\text{C} \dots 104^{\circ}\text{F}$ , or under altitudes higher than 1000m, 3,280.84 ft., motor cooling characteristics will be affected, and the motor output power P2 will be decreased to a certain extent. If the pump is operated under the above conditions larger horsepower ratings will be required.

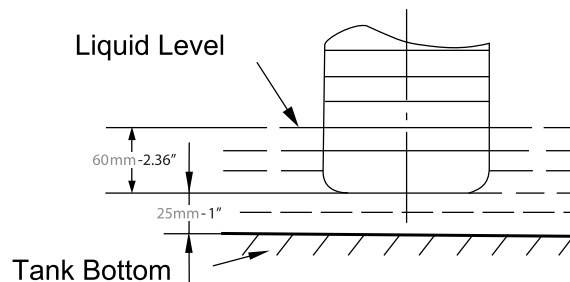
## Model Descriptions



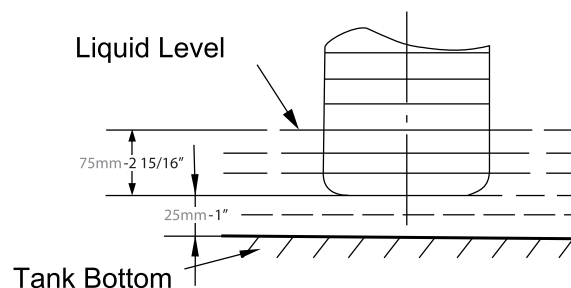
## Pump Installation Clearance Requirements

The dimensions listed below are the minimum clearance requirements:

### GMVCP2 and GMVCP4 Series

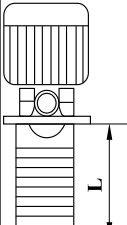


### GMVCP8 and GMVCP16 Series

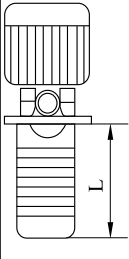




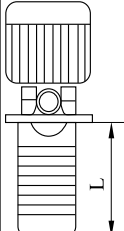
## GMVCP/GMVCPF2 60Hz

		Number of impellers													L mm	L inches
		2	3	4	5	6	7	9	11	13	15	18				
	× 10/Number of cavities × 10	20	●											119	4.685	
		30	○	●										137	5.394	
		40	○	○	●									155	6.102	
		50	○	○	○	●								173	6.811	
		60	○	○	○	○	●							191	7.52	
		70	○	○	○	○	○	●						209	8.228	
		90	○	○	○	○	○	○	●					245	9.646	
		110	○	○	○	○	○	○	○	●				281	11.063	
		130	○	○	○	○	○	○	○	○	●			317	12.48	
		150	○	○	○	○	○	○	○	○	○	●		535	21.063	
		180	○	○	○	○	○	○	○	○	○	○	●	407	16.024	
		220	○	○	○	○	○	○	○	○	○	○	○	●	479	18.838
		260	○	○	○	○	○	○	○	○	○	○	○	○	551	21.693
Power in KW		.55	.75	1.1		1.5		2.2		3.0		4.0				
Power in HP		.74	1.01	1.48		2.01		2.95		4.02		5.36				

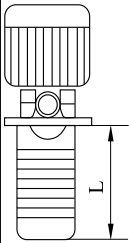
## GMVCP/GMVCPF4 60Hz

		Number of impellers														L mm	L inches
		2	3	4	5	6	7	8	10	12	14	16					
	× 10 / Number of cavities × 10	20	●											148	5.827		
		30	○	●										175	6.89		
		40	○	○	●									202	7.953		
		50	○	○	○	●								229	9.016		
		60	○	○	○	○	●							256	10.079		
		70	○	○	○	○	○	●						283	11.142		
		80	○	○	○	○	○	○	●					310	12.205		
		100	○	○	○	○	○	○	○	●				364	14.331		
		120	○	○	○	○	○	○	○	○	●			418	16.457		
		140	○	○	○	○	○	○	○	○	○	●		472	18.583		
		160	○	○	○	○	○	○	○	○	○	○	●	526	20.709		
		190	○	○	○	○	○	○	○	○	○	○	○	●	607	23.898	
220	○	○	○	○	○	○	○	○	○	○	○	○	●	688	27.087		
Power in KW		0.75	1.1	1.5	2.2	3.0	4.0	5.5									
Power in HP		1.01	1.48	2.01	2.95	4.02	5.36	7.37									

## GMVCP/GMVCPF8 60Hz

		Number of impellers										L mm	L inches	
		2	3	4	5	6	8	10	12	14				
	× 10 / Number of cavities × 10	20	●									150	5.906	
		30	○	●									180	7.087
		40	○	○	●								210	8.268
		50	○	○	○	●							240	9.446
		60	○	○	○	○	●						270	10.63
		80	○	○	○	○	○	●					330	12.992
		100	○	○	○	○	○	○	●				390	15.354
		120	○	○	○	○	○	○	○	●			450	17.717
		140	○	○	○	○	○	○	○	○	●		510	20.079
		160	○	○	○	○	○	○	○	○	○	●	570	22.441
		180	○	○	○	○	○	○	○	○	○	○	630	24.803
		200	○	○	○	○	○	○	○	○	○	○	690	27.165
Power in KW		1.5	2.2	3.0	4.0	5.5	7.5	11						
Power in HP		2.01	2.95	4.02	5.36	7.38	10.06	14.75						

## GMVCP/GMVCPF16 60Hz

		Number of impellers								L	L		
		2	3	4	5	6	7	8	10	mm	inches		
	× 10 / Number of cavities × 10	20	●							180	7.087		
		30	○	●						225	8.838		
		40	○	○	●					270	10.63		
		50	○	○	○	●				315	12.402		
		60	○	○	○	○	●			360	14.173		
		70	○	○	○	○	○	●		405	15.949		
		80	○	○	○	○	○	○	●	450	17.717		
		100	○	○	○	○	○	○	○	●	540	21.26	
		120	○	○	○	○	○	○	○	○	●	630	24.803
		140	○	○	○	○	○	○	○	○	○	●	720
160	○	○	○	○	○	○	○	○	○	○	●	810	31.89
Power in KW		4	5.5	7.5	11		15		18.5				
Power in HP		5.36	7.38	10.06	14.75		20.12		24.81				

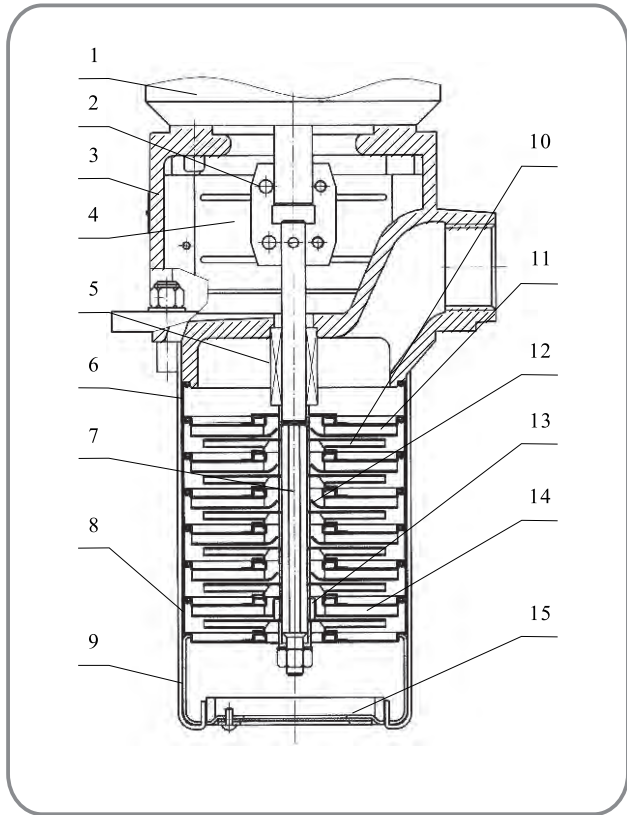
## Performance Curves

1. All curves are based on measured values in 60Hz and constant motor speed 3500rpm

2. For measurement, air-free water with temperature 20 C - 68°F and kinematical viscosity 1 mm<sup>2</sup>/s - 1 centistroke.

3. The pump application is in reference to performance scope of Heavy line to prevent overheating due to too low flow and motor overload due to too high flow-Rate Etc.

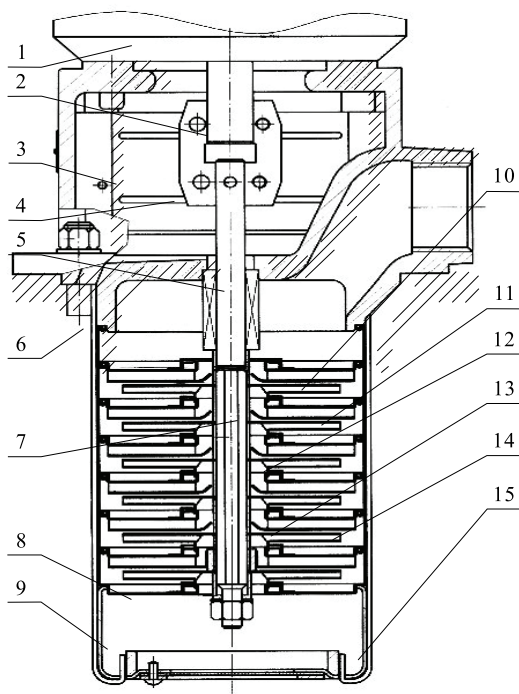
**Sectional Drawing GMVCP/GMVCPF2, 4**



**Materials GMVCP/GMVCPF2, 4**

NO.	Name	Material	AISI/ASTM
1	Electric motor		
2	Coupling	Carbon steel	
4	Guard	Stainless steel	AISI304
5	Mechanical seal		
6	Tensioning device	Stainless steel	AISI304
7	Shaft	Stainless steel	AISI316
8	Suction Chamber	Stainless steel	AISI304
9	Suction Assembly	Stainless steel	AISI304
10	Impeller	Stainless steel	AISI304
11	Intermediate chamber	Stainless steel	AISI304
12	Spacer	Stainless steel	AISI304
13	Bearing	Tungsten carbide	
14	Chamber with bearing	Stainless steel	AISI304
15	Suction Filter	Stainless steel	AISI304
	Rubber parts	FPM	
GMVCP			
3	Pump head	Cast iron	ASTM25B
GMVCPF			
3	Pump head	Stainless steel	AISI304

## Sectional Drawing GMVCP/GMVCP8, 16

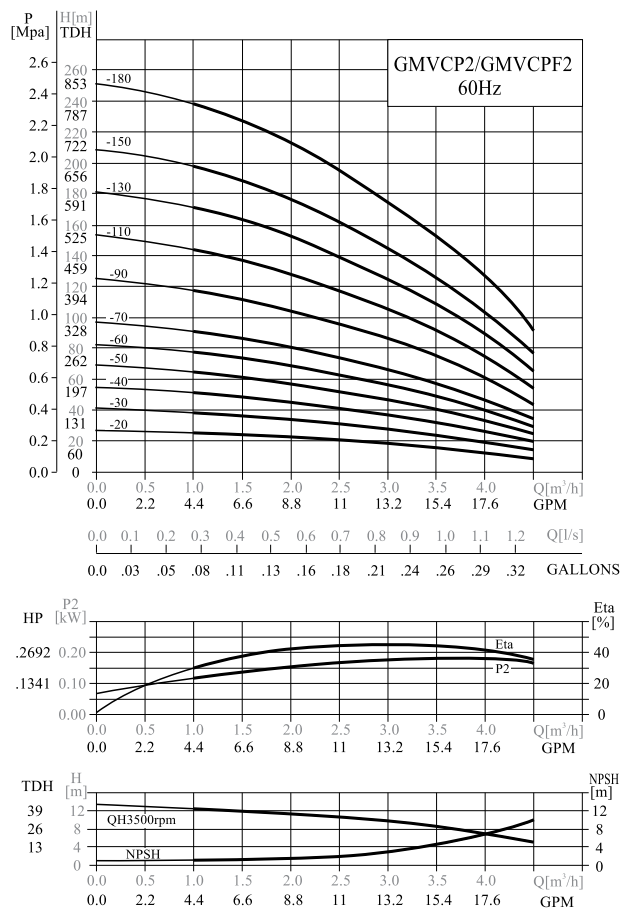


## Materials GMVCP/GMVCPF8, 16

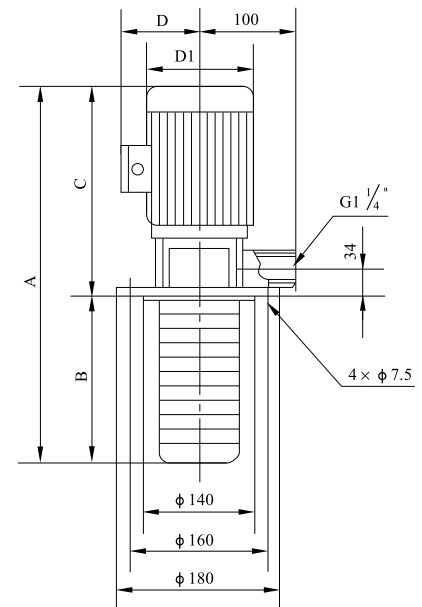
NO.	Name	Material	AISI/ASTM
1	Motor		
2	Coupling	Carbon steel	
4	Guard	Stainless steel	AISI304
5	Mechanical seal		
6	Fastener	Stainless steel	AISI304
7	Shaft	Stainless steel	AISI316
8	Suction Chamber	Stainless steel	AISI304
9	Suction Assembly	Stainless steel	AISI304
10	Impeller	Stainless steel	AISI304
11	Intermediate chamber	Stainless steel	AISI304
12	Spacer	Stainless steel	AISI304
13	Bearing	Tungsten carbide	
14	Chamber with bearing	Stainless steel	AISI304
15	Suction Filter	Stainless steel	AISI304
	Rubber parts	FPM	
GMVCP			
3	Pump head	Cast iron	ASTM25B
GMVCPF			
3	Pump head	Stainless steel	AISI304



## Performance Curves GMVCP/GMVCPF2 - 60 Hz



## Installation Layout



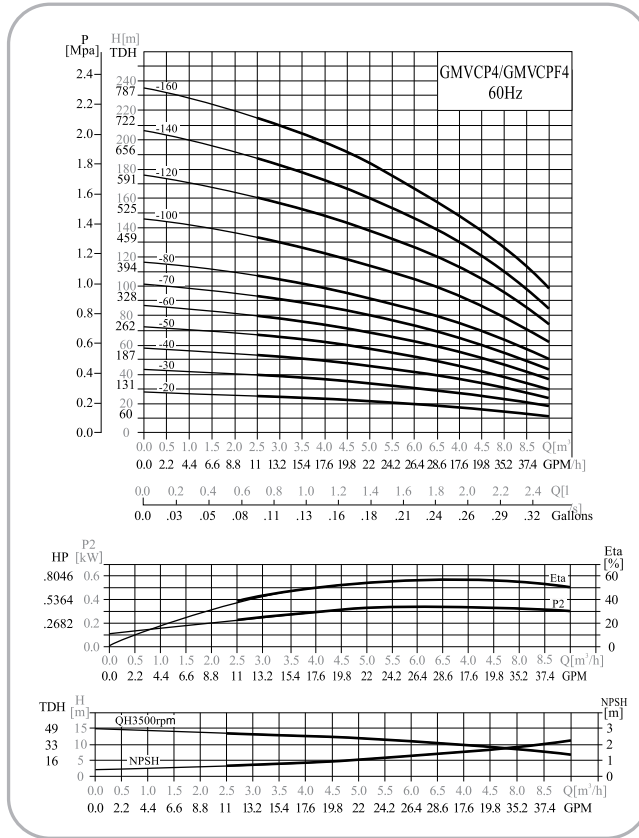
## Performance Table

Model	(kW) HP	Q(m³/h) GPM	1	1.5	2	2.5	3	3.5	4	4.5
			4.4	6.6	8.8	11	13.2	15.4	17.6	19.8
GMVCP2-20/2	0.55	H(M)	26	24	22	21	19	16	12	9
	.74	TDH	85	79	72	69	62	53	39	30
GMVCP2-30/3	0.75	H(M)	39	36	34	31	27	24	19	15
	1.01	TDH	130	118	112	102	89	79	62	49
GMVCP2-40/4	1.1	H(M)	52	48	45	42	36	32	26	20
	1.48	TDH	171	157	148	138	118	105	85	66
GMVCP2-50/5	1.1	H(M)	65	61	57	52	46	41	33	25
	1.48	TDH	213	200	187	171	151	135	108	82
GMVCP2-60/6	1.1	H(M)	78	74	69	63	56	49	40	30
	1.48	TDH	256	243	226	207	184	161	131	98
GMVCP2-70/7	1.5	H(M)	92	86	81	74	66	57	47	35
	2.01	TDH	302	282	266	243	217	187	154	115
GMVCP2-90/9	2.2	H(M)	118	111	104	95	86	76	61	45
	2.95	TDH	387	364	341	312	282	249	200	148
GMVCP2-110/11	2.2	H(M)	144	137	128	117	106	91	75	55
	2.95	TDH	472	449	420	384	348	299	246	180
GMVCP2-130/13	3	H(M)	171	163	152	139	126	108	90	66
	4.02	TDH	561	535	499	456	413	354	295	217
GMVCP2-150/15	3	H(M)	198	188	176	161	146	125	104	77
	4.02	TDH	650	617	577	528	479	410	341	253
GMVCP2-180/18	4	H(M)	238	228	212	195	175	151	126	94
	5.36	TDH	781	748	696	640	574	495	413	308

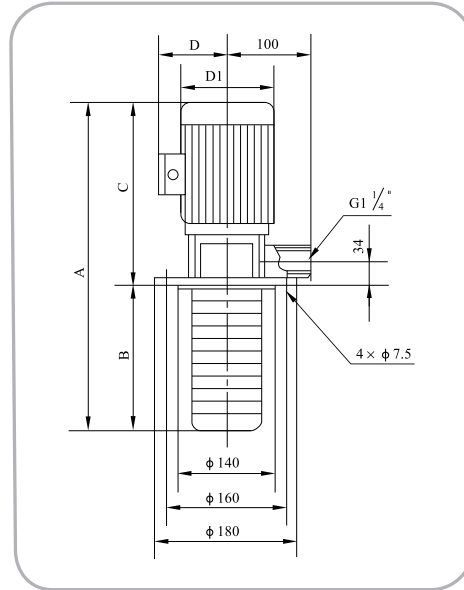
## Size and Weight Table

Model	Size in MM - Inches					Weight KG/lbs.
	A	B	C	D	D1	
GMVCP2-20/2	438	123	315	117	148	13
	17.24	4.84	12.40	4.61	5.83	29
GMVCP2-30/3	499	141	358	142	170	16
	19.62	5.55	14.09	5.59	6.69	35
GMVCP2-40/4	517	159	358	142	170	18
	20.35	6.26	14.06	5.59	6.69	40
GMVCP2-50/5	535	177	358	142	170	18
	21.06	6.97	14.09	5.59	6.69	40
GMVCP2-60/6	553	195	358	142	170	18
	21.77	7.68	14.09	5.59	6.69	40
GMVCP2-70/7	626	213	413	155	190	24
	24.65	8.39	16.26	6.10	7.48	53
GMVCP2-90/9	662	249	413	155	190	30
	26.06	9.80	16.26	6.10	7.48	66
GMVCP2-110/11	698	285	413	155	190	31
	27.48	11.22	16.26	6.10	7.48	68
GMVCP2-130/13	769	321	448	165	197	35
	30.28	12.64	17.64	6.5	7.76	77
GMVCP2-150/15	805	357	448	165	197	36
	31.69	14.06	17.64	6.5	7.76	79
GMVCP2-180/18	906	411	495	185	230	40
	35.67	16.18	19.49	7.28	9.06	88

## Performance Curves GMVCP/GMVCP4 - 60 Hz



## Installation Layout



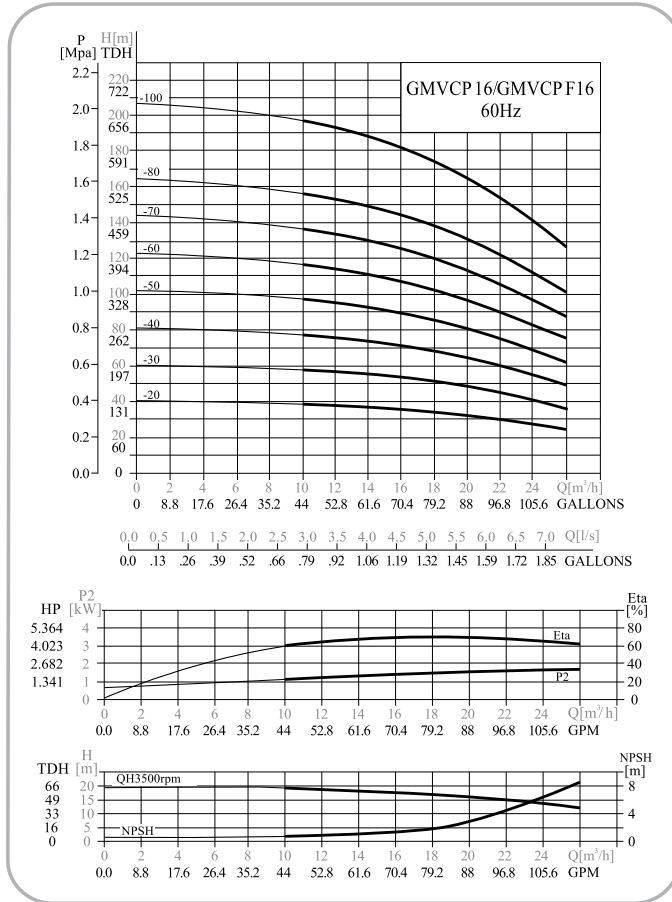
## Performance Table

Model	(kW) HP	Q(m³/h) GPM	2.5 11	3 13.2	4 17.6	5 22	6 26.4	7 30.8	8 35.2	9 39.6
GMVCP4-20/2	0.75	H(M)	26	25	23	21	19	16	14	11
	1.01	TDH	85	82	75	69	62	53	46	36
GMVCP4-30/3	1.1	H(M)	40	39	36	32	30	26	22	18
	1.48	TDH	131	130	118	105	98	85	72	59
GMVCP4-40/4	1.5	H(M)	53	52	48	44	41	35	31	24
	2.01	TDH	174	171	157	144	135	115	102	79
GMVCP4-50/5	2.2	H(M)	66	65	60	55	51	44	39	30
	2.95	TDH	217	213	197	180	167	144	130	98
GMVCP4-60/6	2.2	H(M)	80	78	73	67	61	54	47	36
	2.95	TDH	262	256	240	220	200	177	154	118
GMVCP4-70/7	3	H(M)	93	91	85	78	71	63	55	42
	4.02	TDH	305	299	279	256	233	207	180	138
GMVCP4-80/8	3	H(M)	107	104	97	90	82	73	63	49
	4.02	TDH	351	341	318	295	269	240	207	161
GMVCP4-100/10	4	H(M)	134	130	121	113	103	92	80	61
	5.36	TDH	440	427	397	371	338	302	262	200
GMVCP4-120/12	4	H(M)	161	156	145	136	125	111	96	74
	5.36	TDH	528	512	476	446	410	364	315	243
GMVCP4-140/14	5.5	H(M)	188	183	170	159	146	130	112	86
	7.38	TDH	617	600	558	522	479	427	367	282
GMVCP4-160/16	5.5	H(M)	215	210	196	183	168	149	128	99
	7.38	TDH	705	689	643	600	551	489	420	325

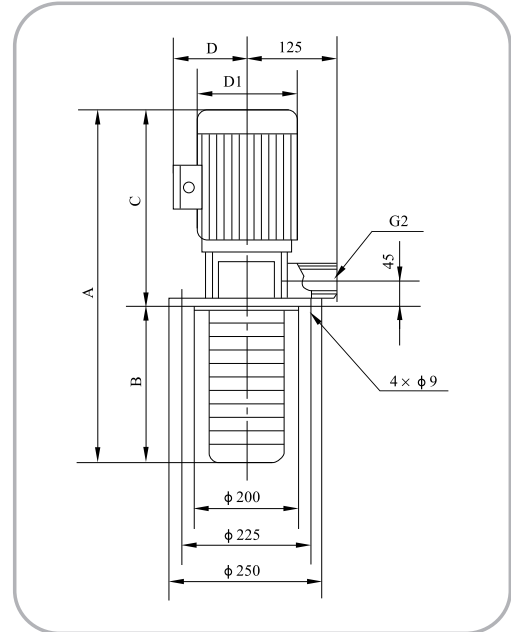
## Size and Weight Table

Model	Size in MM - Inches					Weight KG/lbs.
	A	B	C	D	D1	
GMVCP4-20/2	506	148	358	142	170	15
	19.92	5.83	14.09	5.59	6.69	33
GMVCP4-30/3	533	175	358	142	170	18
	20.98	6.89	14.09	5.59	6.69	40
GMVCP4-40/4	615	202	413	155	190	20
	24.21	7.95	16.26	6.10	7.48	44
GMVCP4-50/5	642	229	413	155	190	25
	25.28	9.02	16.26	6.10	7.48	55
GMVCP4-60/6	669	256	413	155	190	25
	26.34	10.08	16.26	6.10	7.48	55
GMVCP4-70/7	731	283	448	165	197	30
	28.78	11.14	17.64	6.5	7.76	66
GMVCP4-90/9	758	310	448	165	197	32
	29.84	12.20	17.64	6.5	7.76	71
GMVCP4-110/11	859	364	495	188	230	35
	33.82	14.33	19.49	7.28	9.06	77
GMVCP4-130/13	914	418	495	188	230	38
	35.98	16.46	19.49	7.28	9.06	84
GMVCP4-150/15	1082	472	610	208	260	63
	42.60	18.58	24.02	8.19	10.24	139
GMVCP4-180/18	1136	526	610	208	260	65
	44.72	20.71	24.02	8.19	10.24	143

## Performance Curves GMVCP/GMVCPF16 - 60 Hz



## Installation Layout



## Performance Table

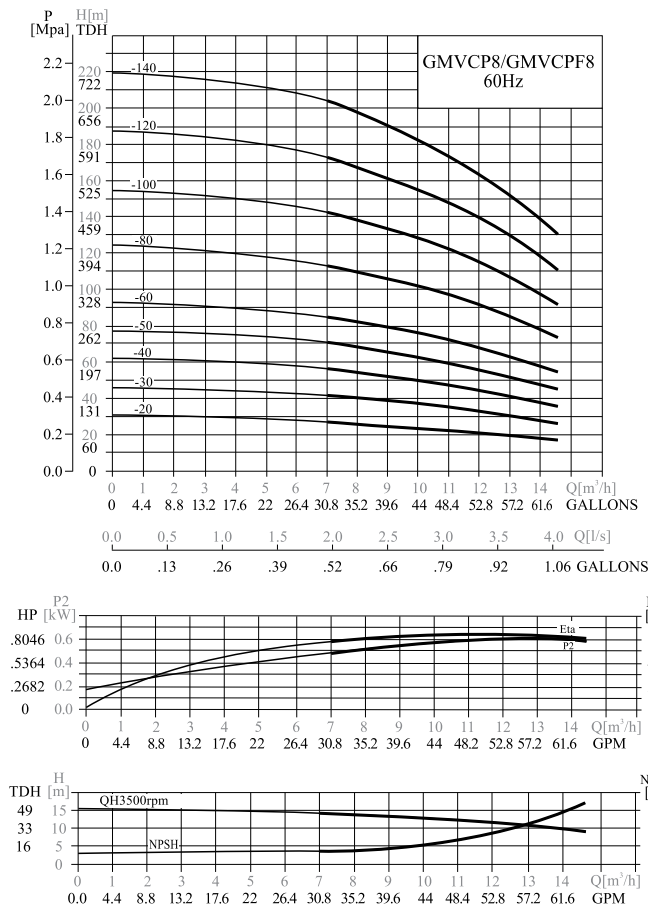
Model	(kW) HP	Q(m³/h) GPM	10 44	12 52.8	14 61.6	16 70.4	18 79.2	20 88	22 96.8	24 105.6	26 114.4
GMVCP16-20/2	4 5.36	H(M) TDH	38 125	37.5 123	37 121	36 118	34 112	32 105	30 98	27 89	24 79
GMVCP16-30/3	5.5 7.38	H(M) TDH	57 187	56 184	55 180	54 177	51 167	48 157	45 148	40 131	36 118
GMVCP16-40/4	7.5 10.06	H(M) TDH	76 249	75 246	73 240	72 236	68 223	64 210	60 197	54 177	49 161
GMVCP16-50/5	11 14.75	H(M) TDH	96 315	94 308	92 302	90 295	85 279	80 262	75 246	68 223	62 203
GMVCP16-60/6	11 14.75	H(M) TDH	115 377	113 371	111 364	108 354	102 335	96 315	91 299	82 269	75 246
GMVCP16-70/7	15 20.12	H(M) TDH	135 443	132 433	129 423	126 413	119 390	113 371	106 348	96 315	88 289
GMVCP16-80/8	15 20.12	H(M) TDH	155 509	152 499	148 486	144 472	137 449	130 427	122 400	111 364	101 331
GMVCP16-100/10	18.5 24.81	H(M) TDH	197 646	192 630	187 614	181 594	174 571	165 541	153 502	141 463	127 417

## Size and Weight Table

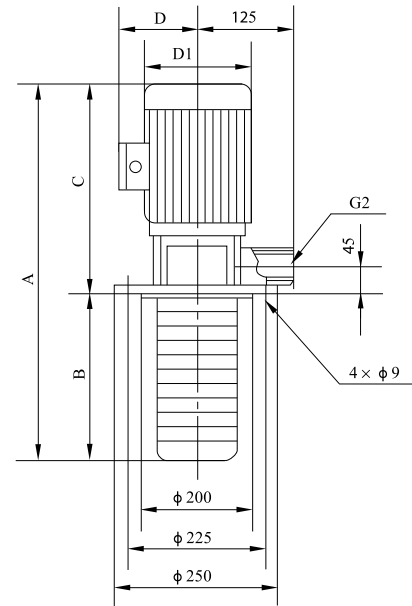
Model	Size in MM - Inches					Weight KG/lbs.
	A	B	C	D	D 1	
GMVCP16-20/2	655 25.79	180 7.09	475 18.70	190 7.48	230 9.06	50 110
GMVCP16-30/3	735 28.94	225 8.86	510 20.28	210 8.27	260 10.24	65 143
GMVCP16-40/4	785 30.91	270 10.63	510 20.08	210 8.27	260 10.24	75 165
GMVCP16-50/5	1005 39.57	315 12.40	690 27.17	255 10.04	330 12.99	130 287
GMVCP16-60/6	1050 41.34	360 14.17	690 27.17	255 10.04	330 12.99	132 291
GMVCP16-70/7	1095 43.11	405 15.94	690 27.17	255 10.04	330 12.99	135 298
GMVCP16-80/8	1140 44.88	450 17.72	690 27.17	255 10.04	330 12.99	137 302
GMVCP16-100/10	1230 48.43	540 21.26	690 27.17	255 10.04	330 12.99	145 320



## Performance Curves GMVCP/VGMCP8 - 60Hz



## Installation Layout



**Performance Table**

Model	(kW)	Q(m³/h)	7	8	9	10	11	12	13	14
	HP	GPM	30.8	35.2	39.6	44	48.4	52.8	57.2	61.6
GMVCP8-20/2	1.5	H(M)	27	26	25	24	23	22	20	18
	2.01	TDH	89	85	82	79	75	72	66	59
GMVCP8-30/3	2.2	H(M)	41	40	38	37	35	33	31	28
	2.95	TDH	135	131	125	121	115	108	102	92
GMVDP8-40/4V	3	H(M)	55	54	52	47	47	45	42	38
	4.02	TDH	180	177	171	154	154	148	138	125
GMVCP8-50/5	3	H(M)	70	68	65	59	59	56	52	48
	4.02	TDH	230	223	213	194	194	184	171	157
GMVCP8-60/6	4	H(M)	85	82	78	72	72	68	63	58
	5.36	TDH	279	269	256	236	236	223	207	190
GMVCP8-80/8	5.5	H(M)	115	111	105	97	94	91	85	78
	7.38	TDH	377	364	345	318	308	299	279	256
GMVCP8-100/10	7.5	H(M)	145	140	132	122	122	115	107	98
	10.06	TDH	476	459	433	400	400	377	351	322
GMVCP8-120/12	7.5	H(M)	175	169	160	148	148	139	129	118
	10.06	TDH	574	554	525	486	486	456	453	387
GMVCP8-140/14	11	H(M)	205	198	188	174	174	163	152	139
	14.75	TDH	673	650	617	571	571	535	499	456

**Size and Weight Table**

Model	Size in MM - Inches					Weight KG/lbs.
	A	B	C	D	D 1	
GMVCP8-20/2	569	150	419	155	190	32
	22.40	5.91	16.50	6.10	7.48	71
GMVCP8-30/3	599	180	419	155	190	37
	23.58	7.09	16.50	6.10	7.48	82
GMVCP8-40/4	664	210	454	165	197	45
	26.14	8.27	17.87	6.5	7.76	99
GMVCP8-50/5	694	240	454	165	197	47
	27.32	9.45	17.87	6.5	7.76	104
GMVCP8-60/6	744	270	474	190	230	52
	29.29	10.63	18.66	7.48	9.06	115
GMVCP8-80/8	919	330	589	210	260	72
	36.18	12.99	23.19	8.27	10.24	159
GMVCP8-100/10	979	390	589	210	260	78
	38.54	15.35	23.19	8.27	10.24	172
GMVCP8-120/12	1039	450	589	210	260	80
	40.91	17.72	23.19	8.27	10.24	176
GMVCP8-140/14	1200	510	690	255	330	135
	47.24	20.28	27.17	10.04	12.99	298

# PERFORMANCE DRIVEN **PUMPS**

GMVCP2

GMVCPF2

GMVCP4

GMVCPF4

GMVCPF16

20

10

9

8

7

6

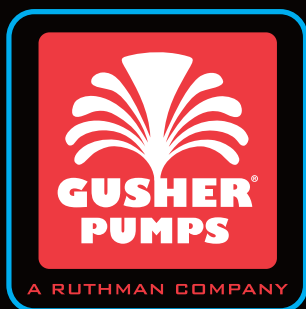
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20

50

60

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It began in 1913, servicing mechanical components of the steamboats on the Ohio River. The company founder, Alois Ruthman, was a man of vision and saw part of the future of the company was in the development of a reliable industrial pump.

In 1924, with the conception of the first vertical ball bearing sealless centrifugal pump, Ruthman Pump and Engineering furthered the design on a unit with a one piece motor driven shaft. The pump was called "Gusher", giving birth to the trade name Gusher Pumps, and the coining of the term "coolant pump".

Wanting to carry on the tradition of quality and reliability started by his father, Thomas R. Ruthman joined the company in 1949. In the early 1990's Thomas R. Ruthman's son, Thomas G. Ruthman joined the company, continuing this same tradition. Maintaining the reputation of Gusher Pumps by innovation and customer service, the company has grown to service companies worldwide.

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