

VERTICAL MULTISTAGE  
STAINLESS STEEL CENTRIFUGAL PUMP



VMS Series

# MERIN PUMPS



## Vertical Multistage in Line Stainless steel Centrifugal Pumps

### 1. Application

VMS & VMSS Vertical multistage in line stainless steel centrifugal pumps are designed for the following applications.

#### a. Pumped liquids

Thin, non-explosive liquids, not containing solid particles. The liquid not attack the pump material chemically. When pumping liquid with a density or viscosity higher than that of water, motor with correspondingly higher outputs must be used, if required.

#### b. Application

- Municipal water supply and pressure boosting
- Domestic water supply
- Boiler feed and condensate systems
- Irrigation and dewatering
- Fire fighting
- Washing plants and wash down

### 2. Model code

Series VMS = Vertical Multistage Stainless Steel Pump

Frequency = 50 Hz, S = 60 Hz

Nominal flow rate in m<sup>3</sup>/h

Number of stages x 10

### 3. Technical Data

#### a. Ambient Temperature

#### b. Liquid Temperature

Standards Design - 15°C to +90 °C

For Hot water design :- 15 °C to + 120 °C

#### c. Min Suction Pressure

According to NPSH ass 0.5m water head

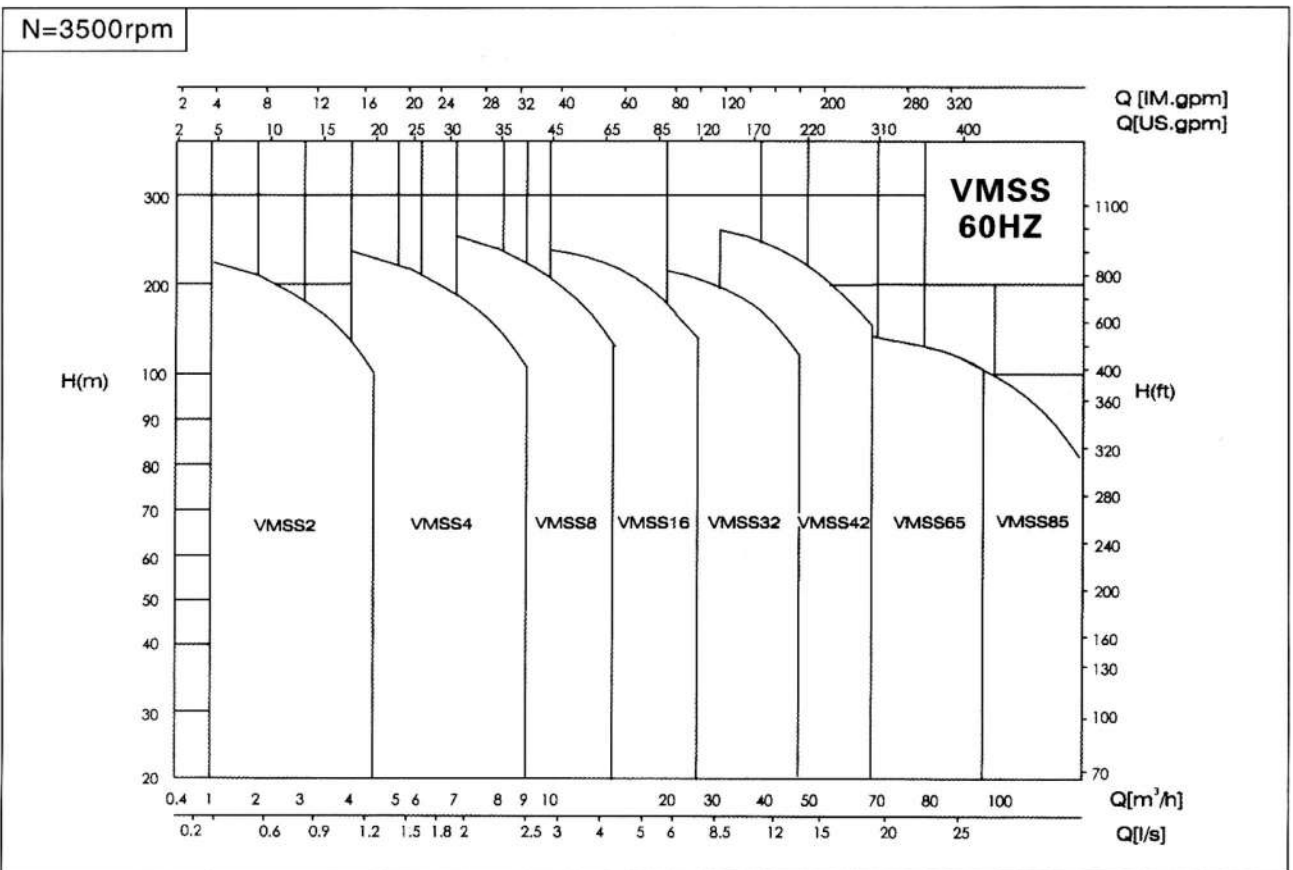
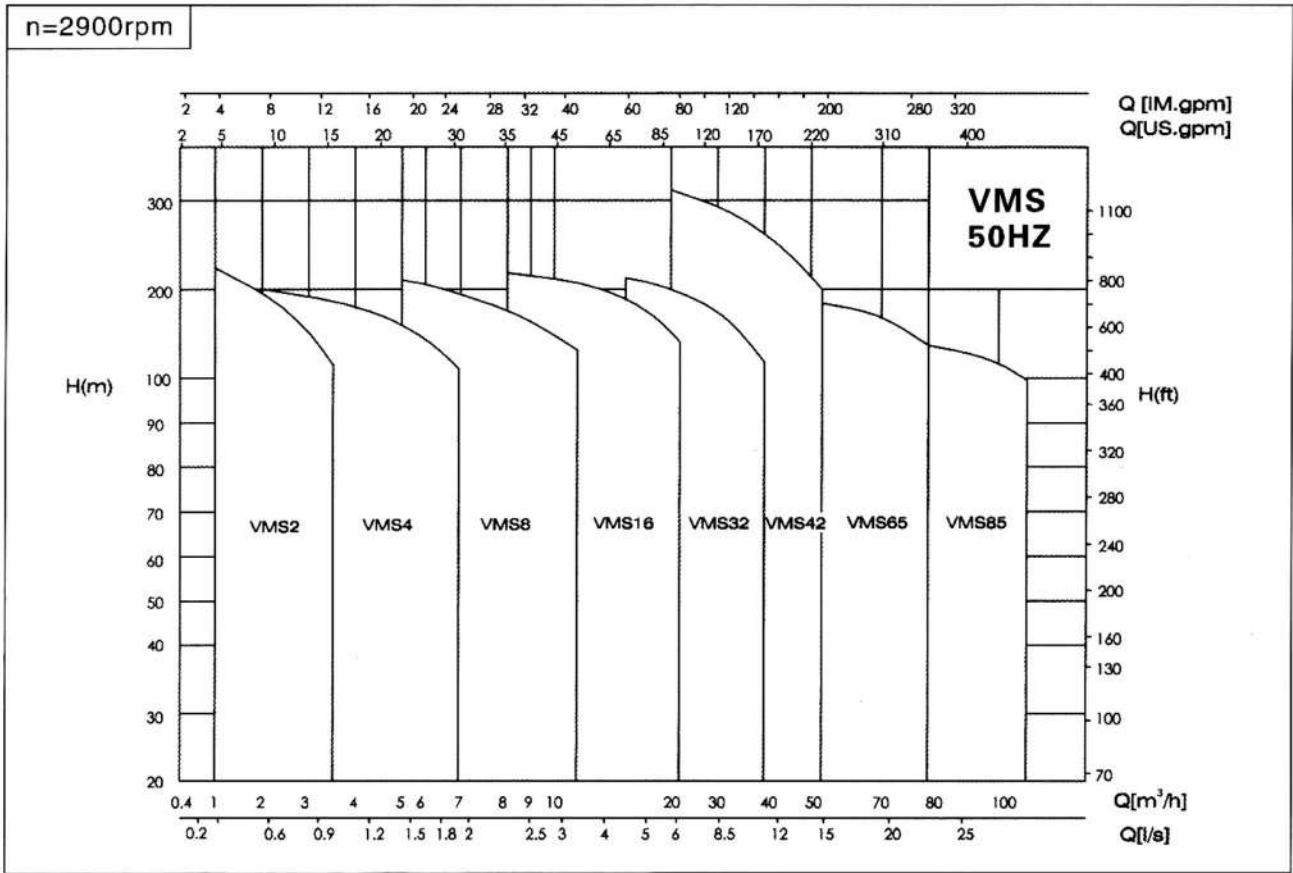
d. Electric Motor standard be supplied as 50 hz, Single phase 220V – 240V or three phase 380V -415V, aluminium casing, IP55, class F. 60Hz, Single phase 110V or three phase 220V, aluminium casing, IP55, class F.

NEMA standard motor on request\

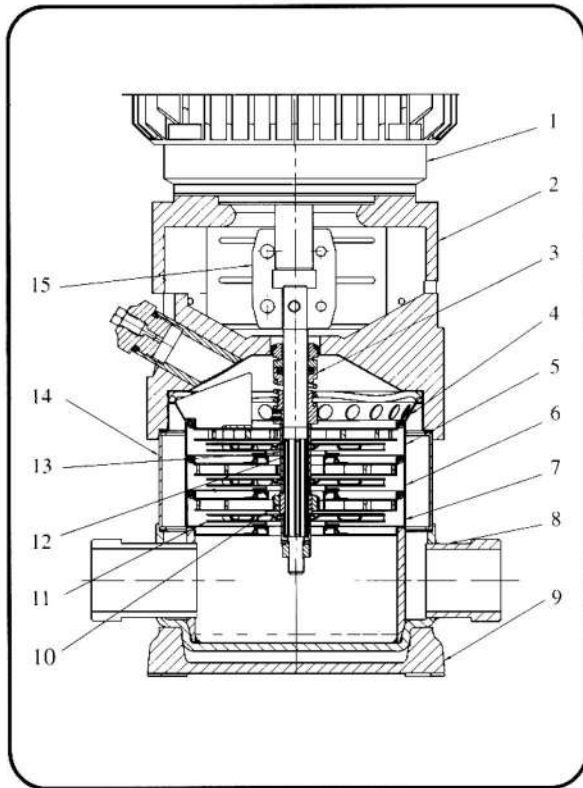
e. Pump's material can be supplied in 304 or 316 stainless steel.



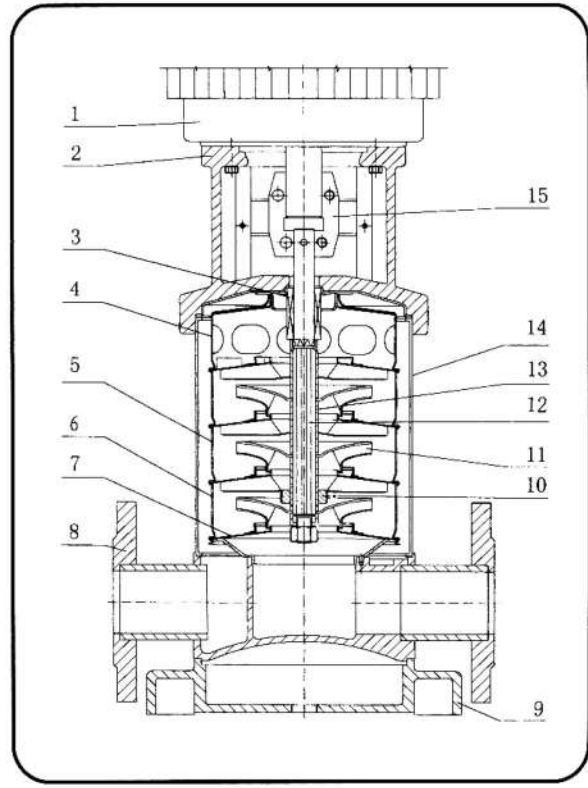
# Selection charts



## General Arrangement drawing



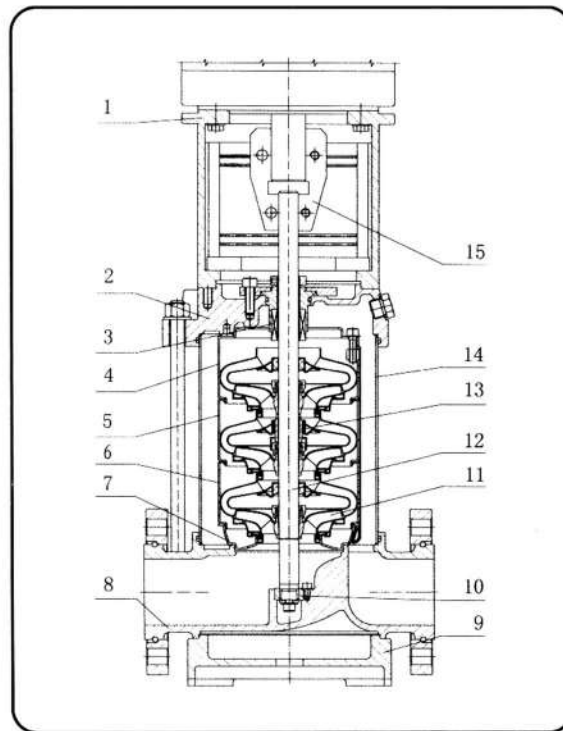
VMS 2, 4  
VMSS 2, 4



Vms 8, 16  
VMSS 8, 16

Item No	Name	Material	AISI/ ASTM
1	Electric Motor		
2	Motor base	Cast Iron	ASTM25B
3	Mechanical Seal	Tugsten Carbide/ Graphite	
4	Discharge Diffuser	Stainless Steel	304
5	Support Diffuser	Stainless Steel	304
6	Diffuser	Stainless Steel	304
7	Inducer	Stainless Steel	304
8	Suction & Discharge Head	Stainless Steel	304
9	Pump Base	Cast Iron	ASTM25B
10	Bearing	Tugsten Carbide	
11	Impeller	Stainless Steel	304
12	Shaft	Stainless Steel	304
13	Sleeve	Stainless Steel	304
14	Cylinder	Stainless Steel	304
15	Coupling	Alloy	
16	Rubbers Parts	FPM	

## General Arrangement drawing



VMS 32, 42, 65, 85  
VMSS 32, 42, 65, 85

<i>Item No</i>	<i>Name</i>	<i>Material</i>	<i>AISI/ ASTM</i>
1	Electric Motor		
2	Motor base	Cast Iron	ASTM25B
3	Mechanical Seal	Tugsten Carbide/ Graphite	
4	Discharge Diffuser	Stainless Steel	304
5	Support Diffuser	Stainless Steel	304
6	Diffuser	Stainless Steel	304
7	Inducer	Stainless Steel	304
8	Suction & Discharge Head	Stainless Steel	304
9	Pump Base	Cast Iron	ASTM25B
10	Bearing	Tugsten Carbide	
11	Impeller	Stainless Steel	304
12	Shaft	Stainless Steel	304
13	Sleeve	Stainless Steel	304
14	Cylinder	Stainless Steel	304
15	Coupling	Alloy	
16	Rubbers Parts	FPM	

### Max Suction Pressure (50HZ)

The Maximum suction pressure is shown in the table below.

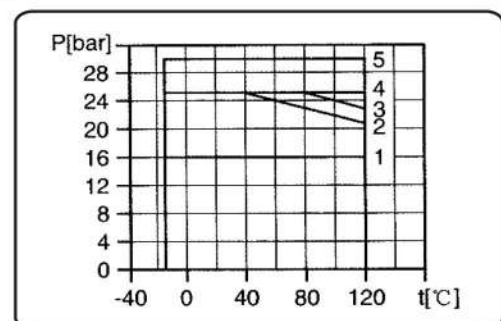
But the actual suction pressure + valve close pressure pf the pump shall be lower

<i>Model</i>	<i>Max. Suction Pressure</i>
<b>VMS 2</b>	
2 - 20	6 (bar)
2 - 30 ~ 2 - 110	10 (bar)
2 - 130 ~ 2 - 260	15 (bar)
<b>VMS 4</b>	
4 - 20	6 (bar)
4 - 30 ~ 4 - 100	10 (bar)
<b>VMS 8</b>	
8 - 20/ 1" 8 - 60	6 (bar)
8 - 80 ~ 8 - 200	10 (bar)
<b>VMS 16</b>	
16 - 20/ 1" 16 - 30	6 (bar)
16 - 40 ~ 16 - 160	10 (bar)
<b>VMS 32</b>	
32 - 10 - 1 ~ 32 - 20 - 2	3 (bar)
32 - 20 ~ 32 - 40	4 (bar)
32 - 50 - 2 ~ 32 - 100	10 (bar)
32 - 110 - 2 ~ 32 - 140	15 (bar)
<b>VMS 42</b>	
42 - 10 - 1	3 (bar)
42 - 10 ~ 42 - 50	4 (bar)
42 - 30 - 2 ~ 42 - 50	10 (bar)
42 - 60 - 2 ~ 42 - 130 - 2	15 (bar)
<b>VMS 65</b>	
65 - 10 - 1 ~ 65 - 20 - 2	4 (bar)
65 - 20 - 1 ~ 65 - 30	10 (bar)
65 - 40 - 2 ~ 65 - 80 - 1	15 (bar)
<b>VMS 85</b>	
85 - 10 - 1 ~ 85 - 10	4 (bar)
85 - 20 - 2 ~ 85 - 30 - 2	10 (bar)
85 - 30 - 1 ~ 85 - 60	15 (bar)

### Max Suction Pressure (50HZ)

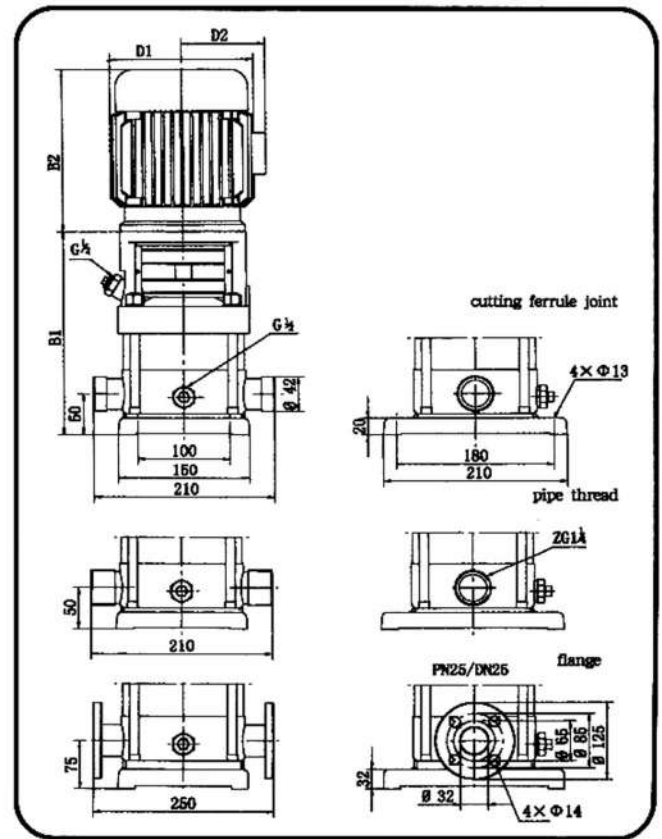
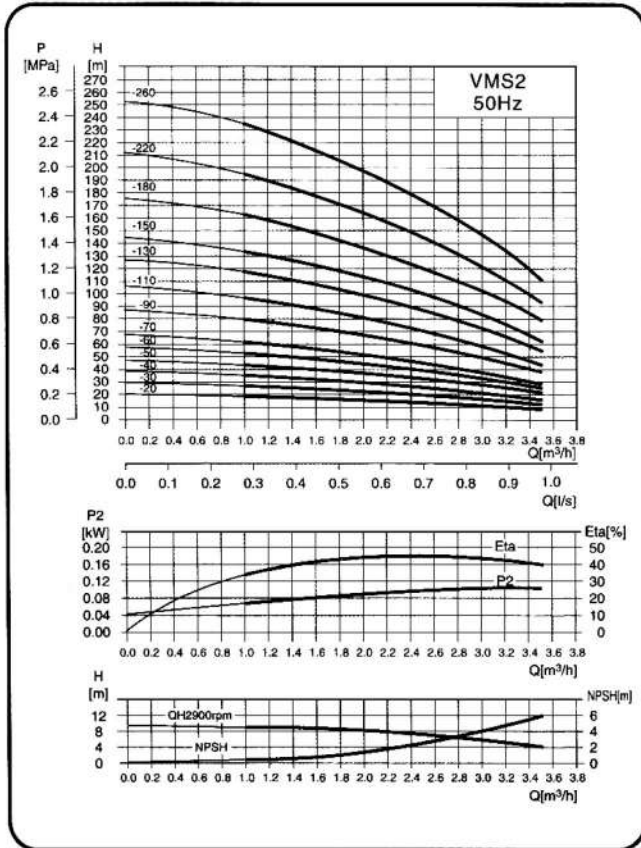
<i>Model</i>	<i>Max. Suction Pressure</i>
<b>VMS 2</b>	
2 - 20 - 150	1
2 - 180 ~ 2 - 260	2
<b>VMS 4</b>	
4 - 20 ~ 4 - 140	1
4 - 160 ~ 4 - 220	2
<b>VMS 8</b>	
8 - 20/ 1" 8 - 120	1
8 - 140 ~ 8 - 220	3
<b>VMS 16</b>	
16 - 20 ~ 16 - 80	1
16 - 100 ~ 16 - 160	3
<b>VMS 32</b>	
32 - 10 - 1 ~ 32 - 70	1
32 - 80 - 2 ~ 32 - 120	4
32 - 130 ~ 32 - 140	5
<b>VMS 42</b>	
42 - 10 - 1 ~ 42 - 60	1
42 - 70 - 2 ~ 42 - 90	4
42 - 100 - 2 ~ 42 - 130 - 2	5
<b>VMS 65</b>	
65 - 10 - 1 ~ 65 - 50	1
65 - 60 - 2 ~ 65 - 80 - 1	4
<b>VMS 85</b>	
85 - 10 - 1 ~ 85 - 50 - 2	1
85 - 50 ~ 85 - 60	4

The following figure shows the limitation of pressure and temperature, which shall be kept



## Performance Curve

## Dimensions



## Performance Table

## Size and Weight

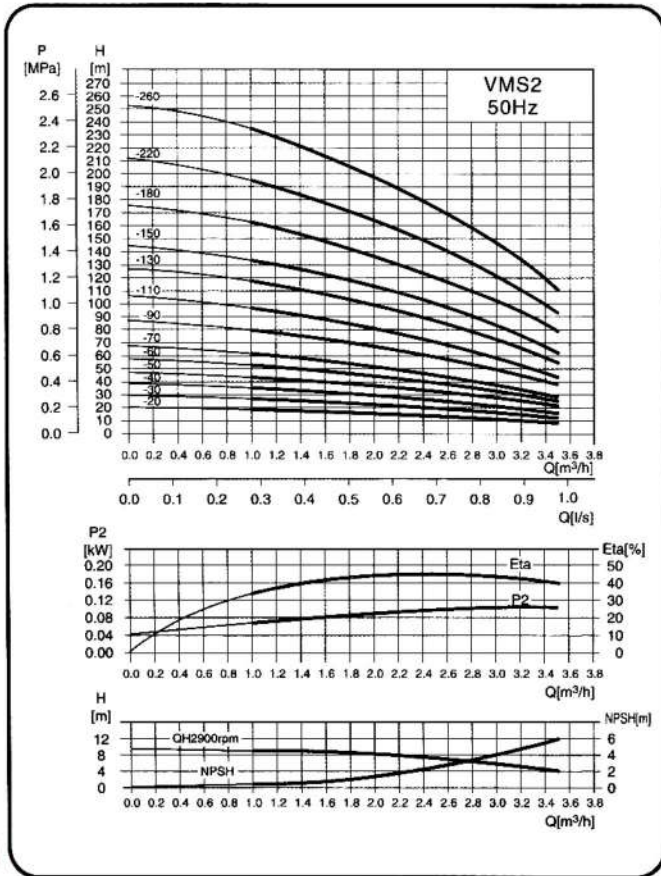
Model	Power (Kw)	Q (m³/h)	H (m)							
			1	1.2	1.6	2	2.4	2.8	3.2	3.5
VMS 2- 20	0.37		18	17	16	15	13	12	10	8
VMS 2- 30	0.37		27	26	24	22	20	18	15	12
VMS 2- 40	0.55		36	35	33	30	26	24	20	16
VMS 2- 50	0.55		45	43	40	37	33	30	24	20
VMS 2- 60	0.75		53	52	50	45	40	36	30	24
VMS 2- 70	0.75		63	51	57	52	47	41	35	28
VMS 2- 90	1.10		80	78	73	67	61	54	45	37
VMS 2- 110	1.10		98	95	89	82	73	64	54	44
VMS 2- 130	1.50		116	114	106	98	89	78	65	52
VMS 2- 150	1.50		134	130	123	112	100	90	73	60
VMS 2- 180	2.20		161	157	148	136	121	108	91	46
VMS 2- 220	2.20		197	192	180	165	148	130	110	90
VMS 2- 260	3.0		232	228	214	198	179	158	130	110

Model	Size ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS 2- 20	220	210	430	148	117	20
VMS 2- 30	238	210	448	148	117	20
VMS 2- 40	256	210	466	148	117	20
VMS 2- 50	274	210	484	148	117	20
VMS 2- 60	297	245	542	170	142	25
VMS 2- 70	315	245	560	170	142	25
VMS 2- 90	351	245	596	170	142	30
VMS 2- 110	387	245	632	170	142	30
VMS 2- 130	440	290	730	190	155	35
VMS 2- 150	476	290	766	190	155	35
VMS 2- 180	530	290	820	190	155	40
VMS 2- 220	602	290	892	190	155	45
VMS 2- 260	682	315	997	197	165	50

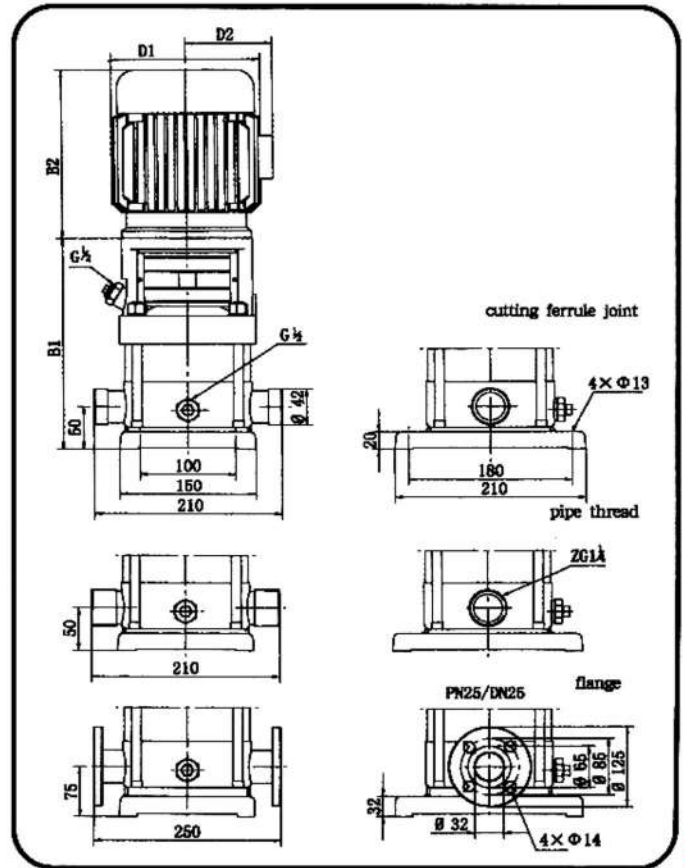


# VMS 4

## Performance Curve



## Dimensions



## Performance Table

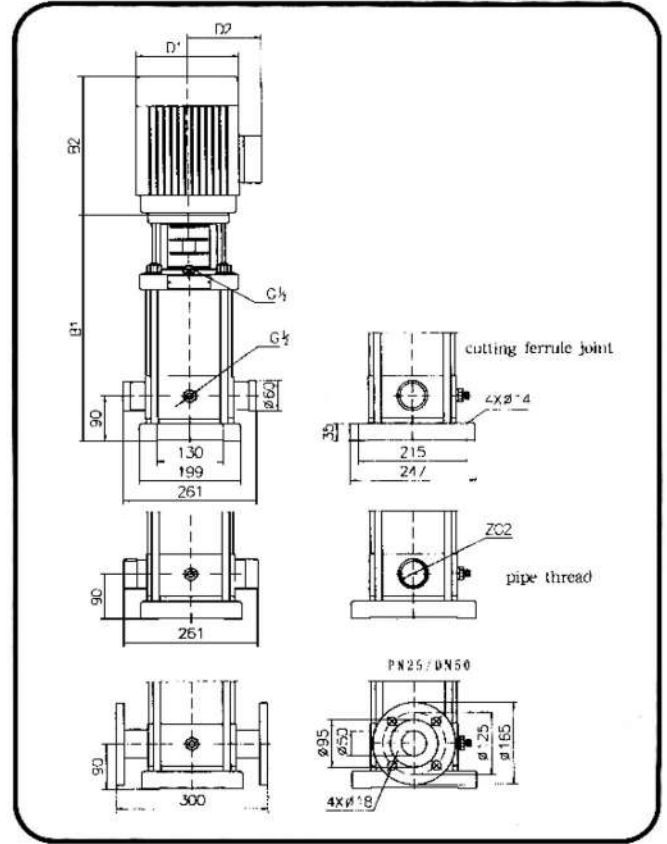
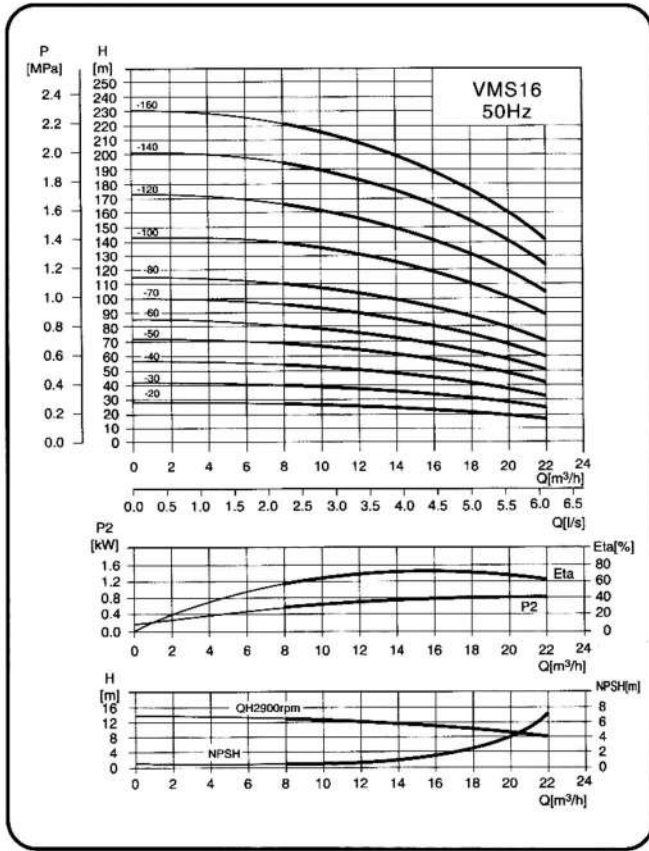
Model	Power (Kw)	Q (m³/h)	H (m)							
			1.5	2	3	4	5	6	7	8
VMS 4- 20	0.37		19	18	17	15	13	10	8	6
VMS 4- 30	0.55		28	27	26	24	20	18	13	10
VMS 4- 40	0.75		38	36	34	32	27	24	19	13
VMS 4- 50	1.1		47	45	43	40	34	31	23	17
VMS 4- 60	1.1		56	54	52	48	41	37	28	20
VMS 4- 70	4.5		66	63	61	56	48	43	33	24
VMS 4- 80	1.5		74	72	70	64	55	50	38	27
VMS 4- 100	2.2		96	90	87	81	71	62	48	34
VMS 4- 120	2.2		114	108	104	95	85	75	58	41
VMS 4- 140	3		136	126	122	112	101	89	68	48
VMS 4- 160	3		152	144	140	129	115	101	78	55
VMS 4- 190	4		183	171	168	153	137	122	93	67
VMS 4- 220	4		211	200	192	178	160	138	108	79

## Size and Weight

Model	Size ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS 4- 20	238	2E+13	430	148	117	20
VMS 4- 30	265	210	475	148	117	20
VMS 4- 40	297	245	542	170	142	20
VMS 4- 50	324	245	569	140	142	25
VMS 4- 60	351	245	596	170	142	25
VMS 4- 70	395	290	685	190	155	30
VMS 4- 80	422	290	712	190	155	30
VMS 4- 100	476	290	766	170	155	30
VMS 4- 120	530	290	820	190	155	35
VMS 4- 140	592	315	907	197	165	35
VMS 4- 160	646	315	961	197	165	40
VMS 4- 190	727	335	1062	230	188	45
VMS 4- 220	808	335	1143	230	188	50

## Performance Curve

## Dimensions



## Performance Table

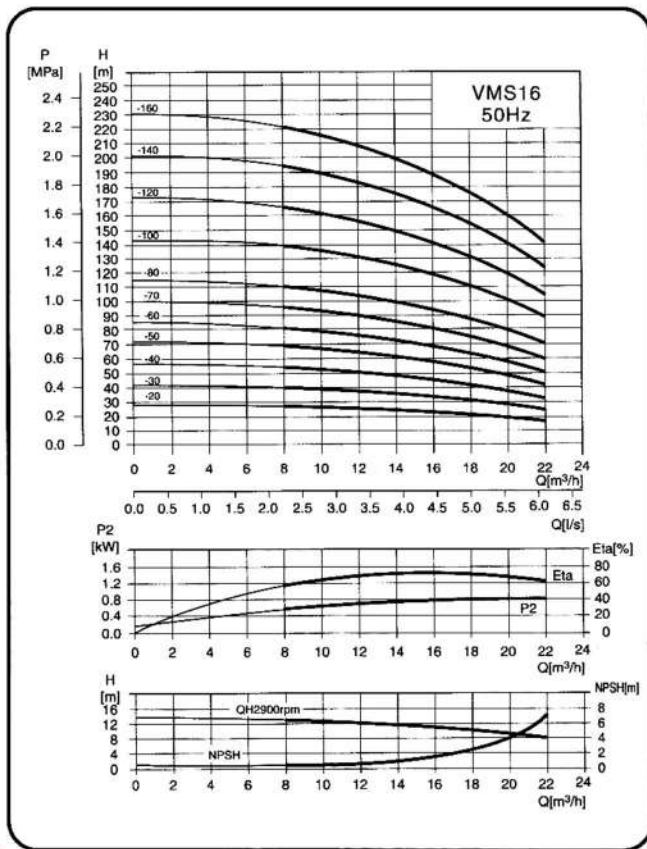
## Size and Weight

Model	Power (Kw)	Q (m³/h)	H (m)									
			5	66	7	8	9	10	11	12		
VMS 8- 20/1	.75		10	9.5	9.3	9	8.5	8	7	6		
VMS 8- 20	.75	20	20	19	18	17	16	14	13			
VMS 8- 30	1.1	30	30	29	27	25	24	21	19			
VMS 8- 40	1.5	41	40	38	36	34	32	28	26			
VMS 8- 50	2.2	52	50	48	45	42	40	36	32			
VMS 8- 60	2.2	62	60	57	54	51	48	43	39			
VMS 8- 80	3.0	83	80	77	73	69	65	58	52			
VMS 8- 100	4.0	104	100	97	92	87	81	73	65			
VMS 8- 120	4.0	124	120	116	111	104	92	57	78			
VMS 8- 140	5.5	145	141	136	130	122	113	102	92			
VMS 8- 160	5.5	166	161	156	148	139	130	118	106			
VMS 8- 180	7.5	187	182	175	167	157	146	134	120			
VMS 8- 200	7.5	208	202	195	186	175	163	150	135			

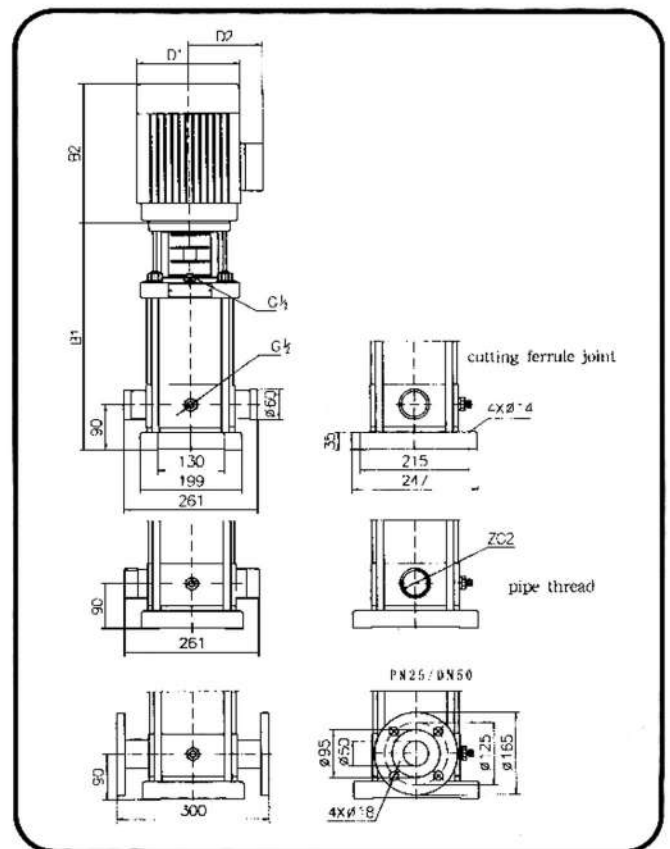
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS 8- 20/1	350	245	595	170	142	25
VMS 8- 20	350	245	595	170	142	25
VMS 8- 30	380	245	625	170	142	30
VMS 8- 40	420	290	740	190	155	40
VMS 8- 50	450	290	770	190	155	40
VMS 8- 60	480	290	770	190	155	40
VMS 8- 80	550	315	865	197	165	45
VMS 8- 100	610	335	945	230	188	55
VMS 8- 120	670	335	1005	230	188	55
VMS 8- 140	750	430	1180	260	208	80
VMS 8- 160	810	430	1240	260	208	80
VMS 8- 180	870	430	1300	260	208	90
VMS 8- 200	930	430	1360	260	208	90

# VMS 16

## Performance Curve



## Dimensions



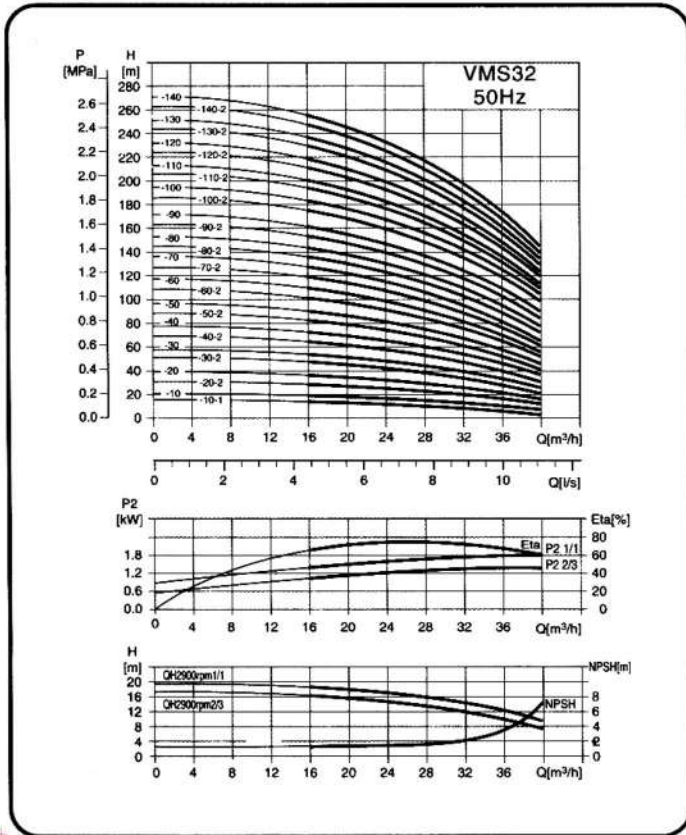
## Performance Table

Model	Power (Kw)	Q (m³/h)	H (m)							
			8	10	12	14	16	18	20	22
VMS 16- 20	2.2		27	26	25	24	22	21	19	16
VMS 16- 30	3.0		41	40	38	37	34	32	26	25
VMS 16- 40	4.0		54	53	52	49	46	43	38	34
VMS 16- 50	5.5		68	67	65	62	58	54	48	43
VMS 16- 60	5.5		82	80	78	74	70	64	58	52
VMS 16- 70	7.5		96	95	91	87	82	76	68	61
VMS 16- 80	7.5		110	108	104	99	94	86	77	70
VMS 16- 100	11		138	136	131	125	118	109	97	87
VMS 16- 120	11		166	162	157	150	141	130	116	105
VMS 16- 140	15		194	190	184	175	166	152	136	122
VMS 16- 160	15		222	217	210	200	189	174	156	140

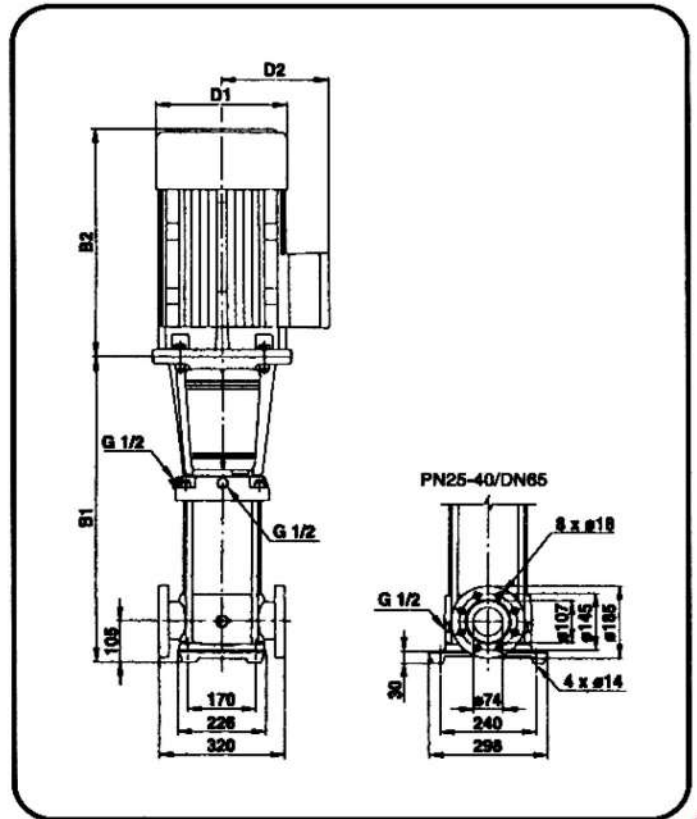
## Size and Weight

Model	Size ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS 16- 20	400	290	690	190	155	40
VMS 16- 30	455	315	770	197	165	20
VMS 16- 40	500	335	835	230	188	55
VMS 16- 50	565	430	995	260	208	70
VMS 16- 60	610	430	1040	260	208	75
VMS 16- 70	655	430	1085	260	208	80
VMS 16- 80	700	430	1130	260	200	80
VMS 16- 100	820	490	1310	330	255	140
VMS 16- 120	910	490	1400	330	255	145
VMS 16- 140	1000	490	1490	330	255	160
VMS 16- 160	1090	490	1580	330	255	165

## Performance Curve



## Dimensions



## Performance table

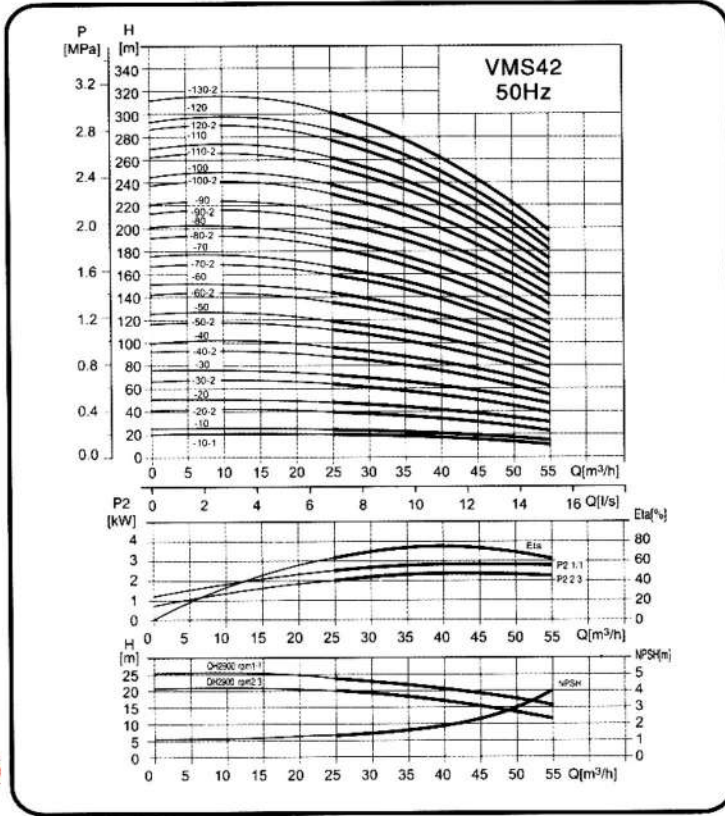
Model	Power (Kw)	Q (m³/h)	H (m)							
			16	20	24	28	32	36	40	
VMS 32-10-1	1.5		14	13	12	11	9	7	4	
VMS 32-10	2.2		18	17	15	14	13	11	8	
VMS 32-20-2	3.0		29	28	26	23	20	16	11	
VMS 32-20	4.0		36	34	32	29	27	23	18	
VMS 32-30-2	5.5		47	44	41	38	33	28	21	
VMS 32-30	5.5		54	51	48	44	40	35	27	
VMS 32-40-2	7.5		65	62	58	53	46	40	30	
VMS 32-40	7.5		72	69	65	59	53	47	37	
VMS 32-50-2	11		83	79	74	68	60	52	41	
VMS 32-50	11		90	86	81	74	67	59	47	
VMS 32-60-2	11		101	97	90	83	74	65	51	
VMS 32-60	11		108	104	97	90	81	72	57	
VMS 32-70-2	15		119	114	107	98	88	78	60	
VMS 32-70	15		126	121	113	105	95	85	67	
VMS 32-80-2	15		136	131	123	114	102	90	71	
VMS 32-80	15		144	138	130	120	109	97	77	
VMS 32-90-2	18.5		154	148	140	129	117	102	82	
VMS 32-90	18.5		162	156	147	136	124	109	88	
VMS 32-100-2	18.5		175	166	157	146	131	115	91	
VMS 32-100	18.5		182	173	164	152	138	122	98	
VMS 32-110-2	22		193	184	173	162	146	128	102	
VMS 32-110	22		200	191	180	168	153	135	109	
VMS 32-120-2	22		211	201	189	175	160	140	113	
VMS 32-120	22		218	208	196	184	167	147	120	
VMS 32-130-2	30		230	218	206	193	147	153	124	
VMS 32-130	30		237	225	213	200	181	160	131	
VMS 32-140-2	30		247	235	222	210	189	165	135	
VMS 32-140	30		255	242	229	216	196	142	142	

## Size and weight

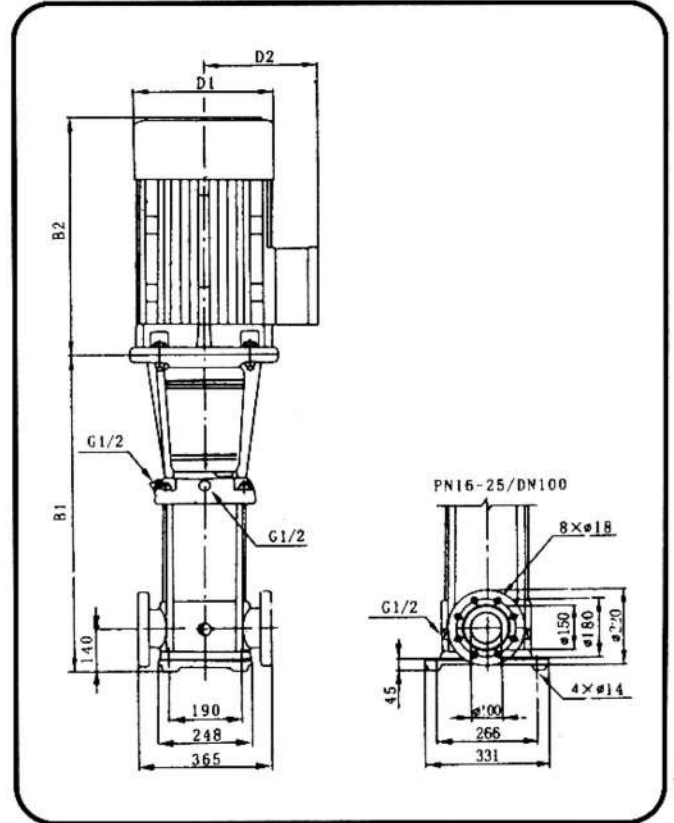
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS 32-10	505	290	795	160	155	68/71
VMS 32-20	575	315/335	890/910	197/230	165/188	78/84
VMS 32-30	645	430	1075	260	208	93
VMS 32-40	715	430	1145	260	208	102
VMS 32-50	890	490	1380	330	255	172
VMS 32-60	960	490	1450	330	255	188
VMS 32-70	1030	490	1590	330	255	192
VMS 32-80	1100	490	1590	330	255	218
VMS 32-90	1170	550	1720	330	255	222
VMS 32-100	1240	550	1790	330	255	259
VMS 32-110	1310	590	1900	360	285	263
VMS 32-120	1380	590	1970	360	285	327
VMS 32-130	1450	660	2110	400	310	331
VMS 32-140	1520	660	2180	400	310	345

# VMS 42

Performance Curve



Dimensions



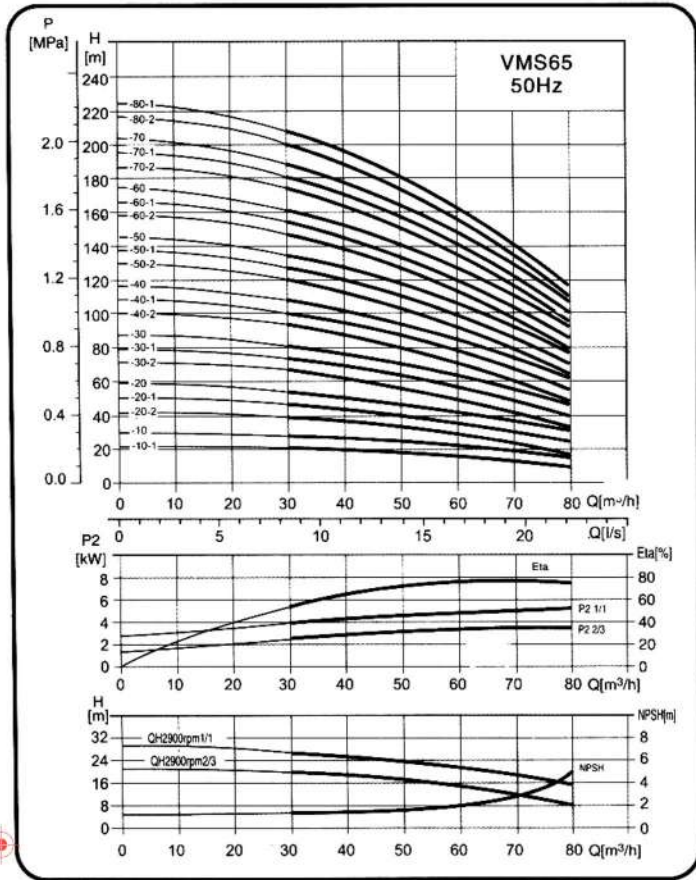
Performance Table

Model	Power (Kw)	Q (m³/h)	H (m)								
			25	30	35	40	42	45	50	55	
VMS 42- 10-1	3.0		20	19	18	17	16	15	13	11	
VMS 42- 10	4.0		24	23	22	21	20	19	18	16	
VMS 42- 20-2	5.5		40	38	36	33	32	30	27	23	
VMS 42- 20	7.5		48	46	44	42	41	39	35	31	
VMS 42- 30-2	11		63	61	58	54	52	50	44	38	
VMS 42- 30	11		71	69	66	63	61	58	53	47	
VMS 42- 40-2	15		87	84	80	75	73	69	62	54	
VMS 42- 40	15		95	92	88	84	81	78	71	62	
VMS 42- 50-2	18.5		111	107	102	96	93	88	80	69	
VMS 42- 50	18.5		119	115	110	105	101	97	88	78	
VMS 42- 60-2	22		135	130	124	117	113	100	97	85	
VMS 42- 60	22		143	138	132	125	122	116	106	93	
VMS 42- 70-2	30		158	152	146	138	134	127	115	100	
VMS 42- 70	30		166	161	154	146	142	135	124	109	
VMS 42- 80-2	30		182	175	168	159	154	146	133	116	
VMS 42- 80	30		190	184	176	167	162	154	141	124	
VMS 42- 90-2	37		205	198	190	180	176	166	150	132	
VMS 42- 90	37		214	207	198	188	183	174	159	140	
VMS 42- 100-2	37		230	22	1212	200	194	185	168	147	
VMS 42-100	37		238	230	220	209	203	193	177	155	
VMS 42- 110-2	45		255	246	236	223	217	206	188	165	
VMS 42- 110	45		263	255	244	232	225	214	196	173	
VMS 42- 120-2	45		280	270	259	245	238	226	206	181	
VMS 42- 120	45		289	280	268	255	247	236	216	190	
VMS 42- 130-2	45		305	294	282	267	259	247	225	198	

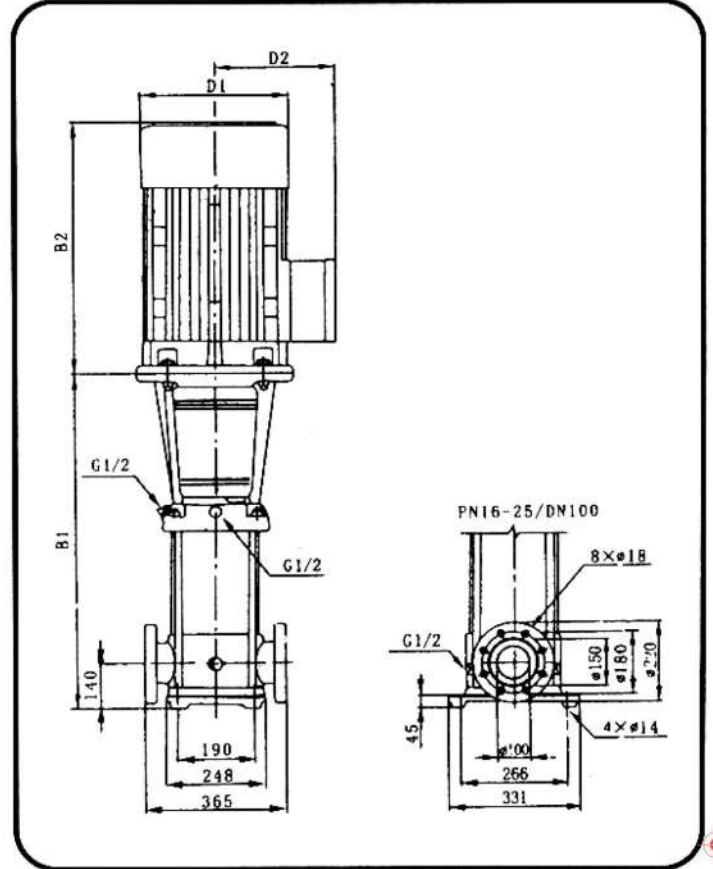
Size and Weight

Model	Size ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS 42- 10	561	315/335	876/896	197/230	165/188	86/92
VMS 42- 20	641	430	1071	260	208	102/107
VMS 42- 30	826	490	1316	330	255	175
VMS 42- 40	906	490	1396	330	255	187
VMS 42- 50	989	550	1536	330	255	208
VMS 42- 60	1066	590	1656	360	285	251
VMS 42- 70	1146	660	1806	400	310	315
VMS 42- 80	1226	660	1886	400	310	319
VMS 42- 90	1306	660	1966	400	310	323/343
VMS 42-100	1386	660	2046	400	310	347
VMS 42- 110	1466	700	2166	450	345	413
VMS 42- 120	1546	700	2246	450	345	417
VMS 42- 130	1626	700	2326	450	345	421

## Performance Curve



## Dimensions



## Performance table

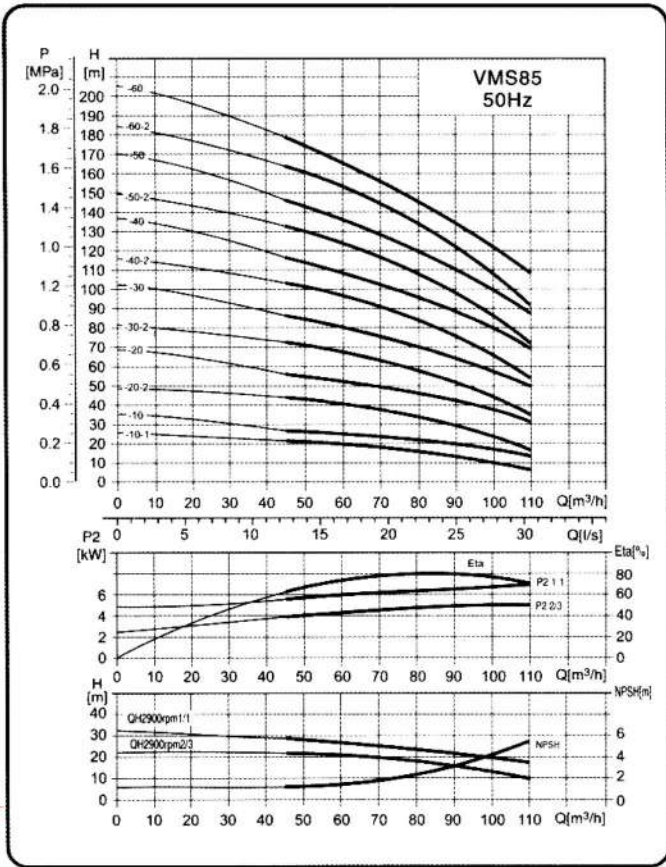
Model	Power (Kw)	Q (m³/h)	H (m)							
			30	40	50	60	65	70	80	
VMS 65- 10-1	4.0		19	18	16	14	13	11	8	
VMS 65- 10	5.5		27	25	23	21	20	18	15	
VMS 65- 20-2	7.5		39	36	33	29	26	23	17	
VMS 65- 20-1	11		46	44	40	36	33	30	24	
VMS 65- 20	11		53	51	47	43	40	37	30	
VMS 65- 30-2	15		66	62	56	50	46	41	32	
VMS 65- 30-1	15		73	69	63	57	53	48	39	
VMS 65- 30	18.5		80	76	70	64	60	55	46	
VMS 65- 40-2	18.5		92	87	80	71	66	60	47	
VMS 65- 40-1	22		100	94	87	78	73	67	54	
VMS 65- 40	22		107	101	94	85	82	74	61	
VMS 65- 50-2	30		121	114	105	95	88	80	64	
VMS 65- 50-1	30		128	121	112	102	95	87	71	
VMS 65- 50	30		136	129	119	109	102	94	78	
VMS 65- 60-2	30		150	142	131	118	110	101	81	
VMS 65- 60-1	37		157	149	138	125	117	108	88	
VMS 65- 60	37		164	156	145	132	124	115	95	
VMS 65- 70-2	37		179	169	156	141	132	121	99	
VMS 65- 70-1	37		186	176	163	148	139	128	106	
VMS 65- 70	45		193	183	170	155	146	135	112	
VMS 65- 80-2	45		207	196	182	164	154	142	116	
VMS 65- 80-1	45		215	203	189	171	161	149	123	

## Size and weight

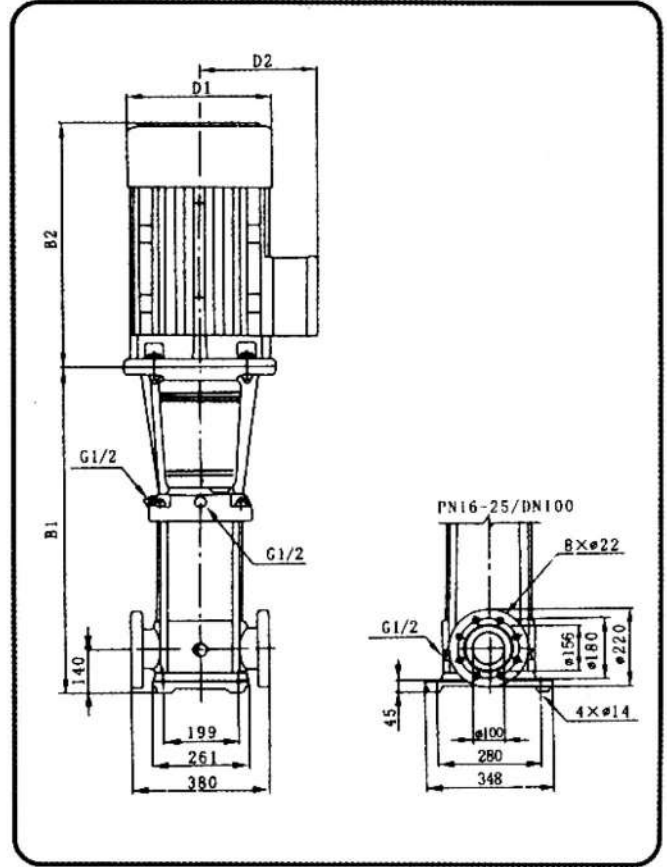
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS 65- 10-1	561	335	896	230	188	105
VMS 65- 10	561	430	911	260	208	110
VMS 65- 20-2	644	430	1074	260	200	120
VMS 65- 20-1	754	490	1244	330	255	155
VMS 65- 20	754	490	1244	330	255	155
VMS 65- 30-2	836	490	1326	330	255	195
VMS 65- 30-1	836	490	1326	330	255	195
VMS 65- 30	836	550	1386	330	255	195
VMS 65- 40-2	919	550	1469	330	255	205
VMS 65- 40-1	919	590	1509	360	285	208
VMS 65- 40	1001	590	1509	360	285	260
VMS 65- 50-2	1001	660	1661	400	310	260
VMS 65- 50-1	1001	660	1661	400	310	345
VMS 65- 50	1084	660	1661	400	310	345
VMS 65- 60-2	1084	660	1766	400	310	345
VMS 65- 60-1	1084	660	1174	400	310	350
VMS 65- 60	1166	660	1744	400	310	370
VMS 65- 70-2	1166	660	1826	400	310	370
VMS 65- 70-1	1166	660	1826	400	310	375
VMS 65- 70	1166	710	1826	400	310	435
VMS 65- 80-2	1248	710	1958	460	340	440
VMS 65- 80-1	1248	710	1958	460	340	440

# VMS 85

Performance Curve



Dimensions



Performance Table

Model	Power (Kw)	Q (m³/h)	50	60	70	80	85	90	100	110
VMS 85- 10-1	5.5	H (m)	22	19	17	16	14	13	10	6
VMS 85- 10	7.5		25	24	22	21	20	19	16	12
VMS 85- 20-2	11		41	39	36	32	30	28	22	15
VMS 85- 20	15		53	50	47	44	41	40	36	30
VMS 85- 30-2	18.5		68	65	60	55	52	49	41	32
VMS 85- 30	22		81	77	72	67	64	62	55	48
VMS 85- 40-2	30		98	93	87	80	75	72	62	50
VMS 85- 40	30		110	105	100	92	86	84	76	66
VMS 85- 50-2	37		126	120	113	104	98	93	81	68
VMS 85- 50	37		139	131	124	115	110	106	94	83
VMS 85- 60-2	45		155	148	139	129	122	117	102	86
VMS 85- 60	45		168	160	150	141	134	130	117	103

Size and Weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS 85- 10-1	571	430	100	1260	208	120
VMS 85- 10	571	430	100	1260	208	122
VMS 85- 20-2	773	490	1263	330	255	165
VMS 85- 20	773	490	1263	330	255	198
VMS 85- 30-2	865	550	1415	330	255	212
VMS 85- 30	865	590	1455	360	285	265
VMS 85- 40-2	957	660	1617	400	310	348
VMS 85- 40	957	660	1617	400	310	348
VMS 85- 50-2	1049	660	1709	400	310	375
VMS 85- 50	1049	660	1709	400	310	375
VMS 85- 60-2	1141	710	1851	460	340	438
VMS 85- 60	1141	710	1851	460	340	438

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