

euroflow

Vertical Multistage In-line
Stainless Steel Centrifugal Pump

50Hz



Vertical multistage in-line Stainless steel centrifugal pump

1.Applications

VMS & VMSS vertical multistage in-line stainless steel centrifugal pump are designed for the following applications:

a. Pumped liquids

Thin, non-explosive liquids, not containing solid particles. The liquid must not attack the pump materials chemically. When pumping liquids 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
- Cooling water systems
- Irrigation and dewatering
- Fire fighting
- Washing plants and washdown

2. Model code

	VMSS	(K)	200	-	40	2A	-	B
Series VMSS=60hz Vertical Multistage Stainless steel pump								
Immersion multistage stainless steel pump								
Nominal flow in m ³ /h								
Number of stage x 10								
2 small impeller A								
1 small impeller B								

3. Technical Data

a.Ambient Temperature

Maximum:+40°C

b.Liquid Temperature

Standard design:-15°C to +70°C(Max)

For hot water design:-15°C to +120°C

c.Min suction pressure

According to NPSH add 0.5m water head.

d.Electric Motor standard be supplied as:

50Hz,single phase 220V-240V or three phase

380V-415V,aluminum casing,IP55,class F.

60Hz,single phase 110V or three phase 220V,

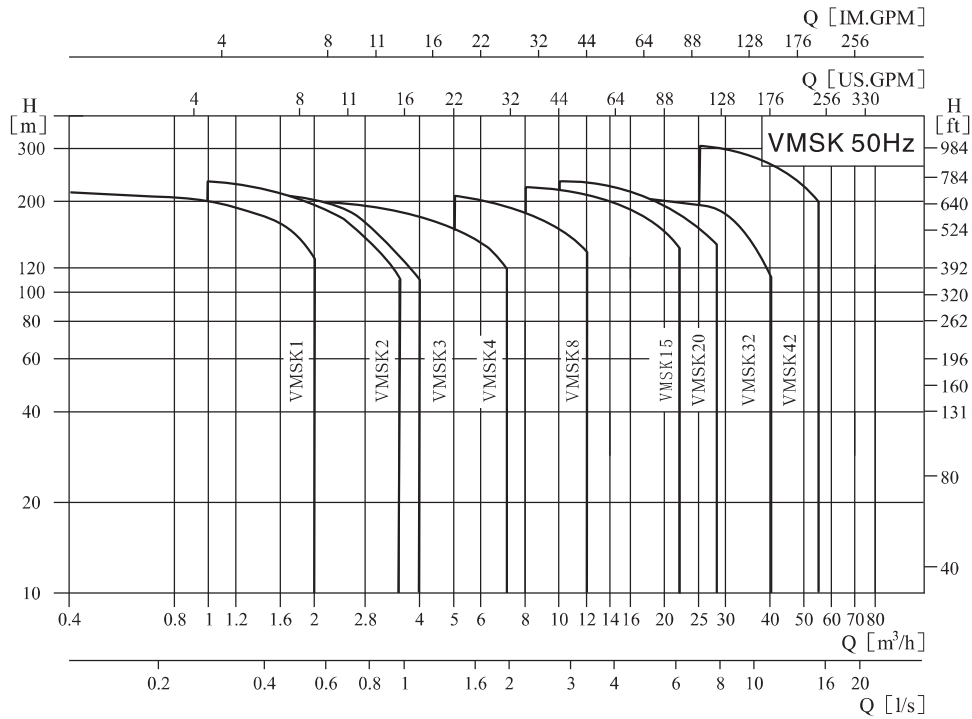
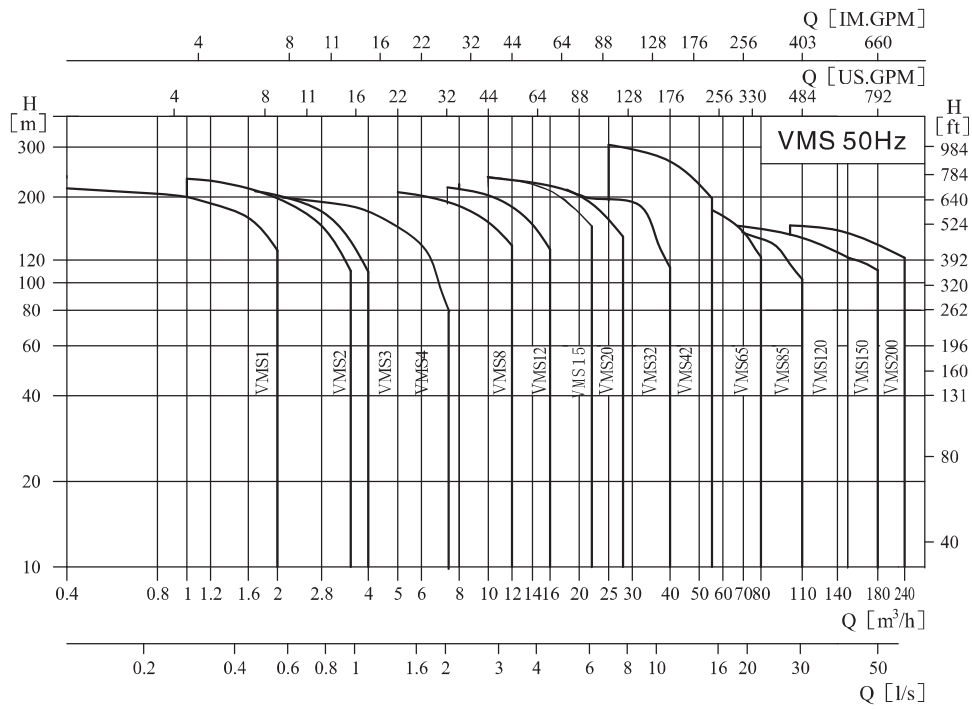
aluminum casing,IP55,class F.

NEMA standard motor on request

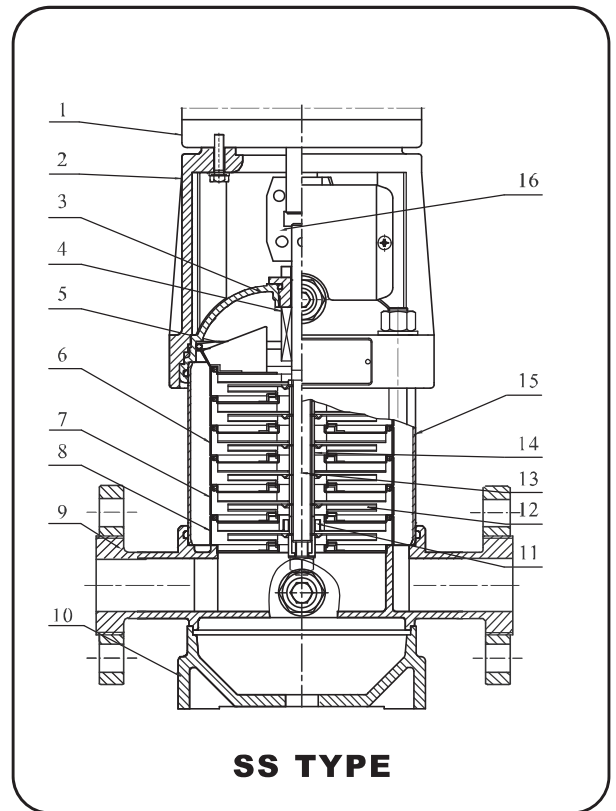
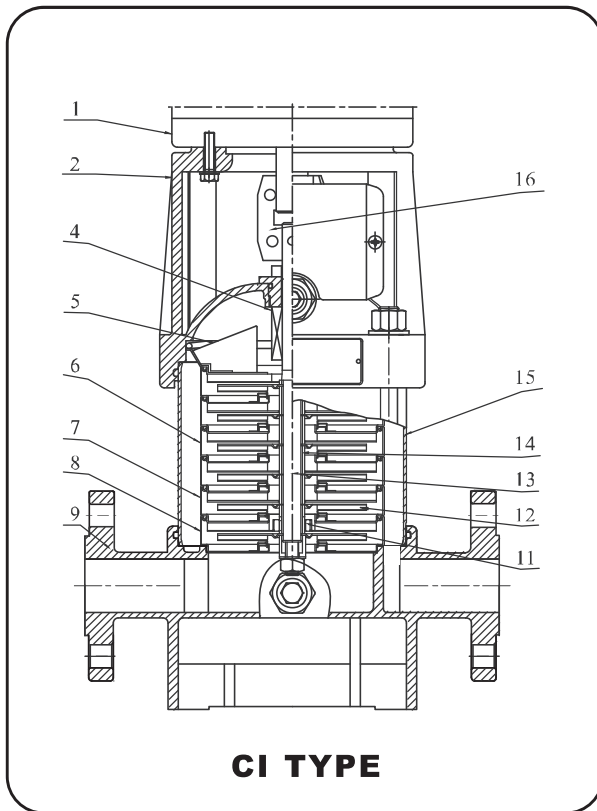
e.Pump's material can be supplied in 304,316 or 316L stainless steel.



Selection charts



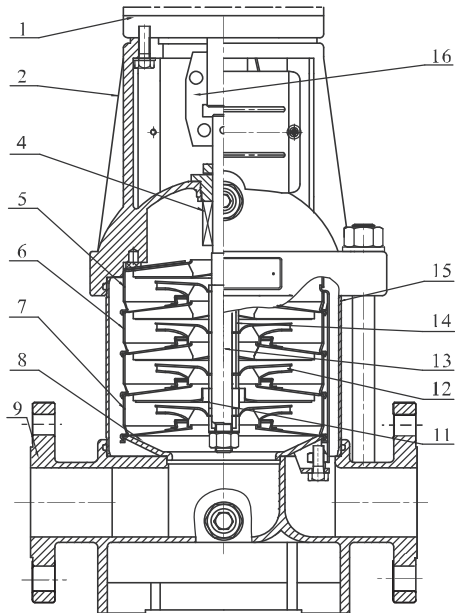
General arrangement drawing



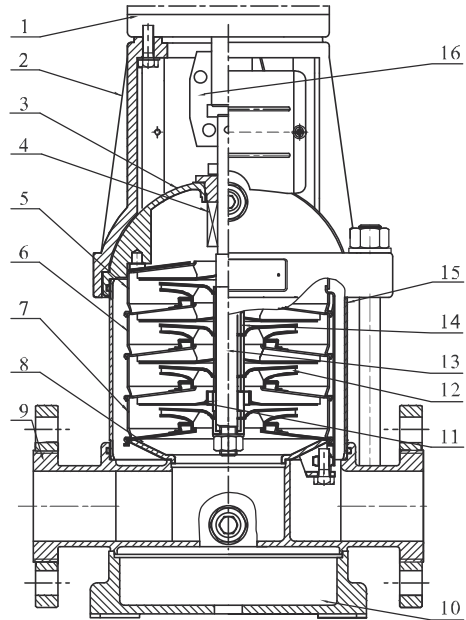
VMS1,2,3,4

NO.	Name	Material	AISI/ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal		
5	Top diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Support diffuser	Stainless steel	AISI304
8	Inducer	Stainless steel	AISI304
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304/316L
14	Impeller sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
VMS stainless steel type			
3	Seal base	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B
VMS cast iron type			
9	Inlet and outlet chamber	Cast iron	ASTM25B

General arrangement drawing



CI TYPE

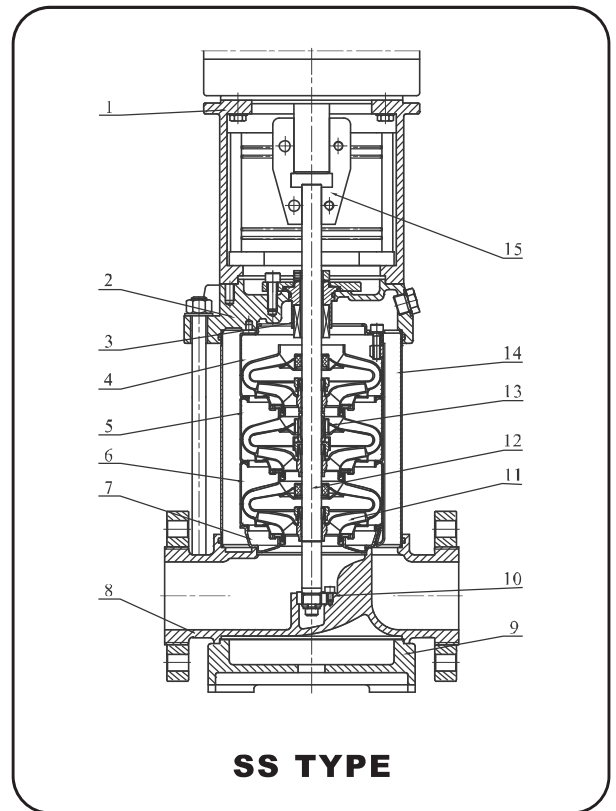
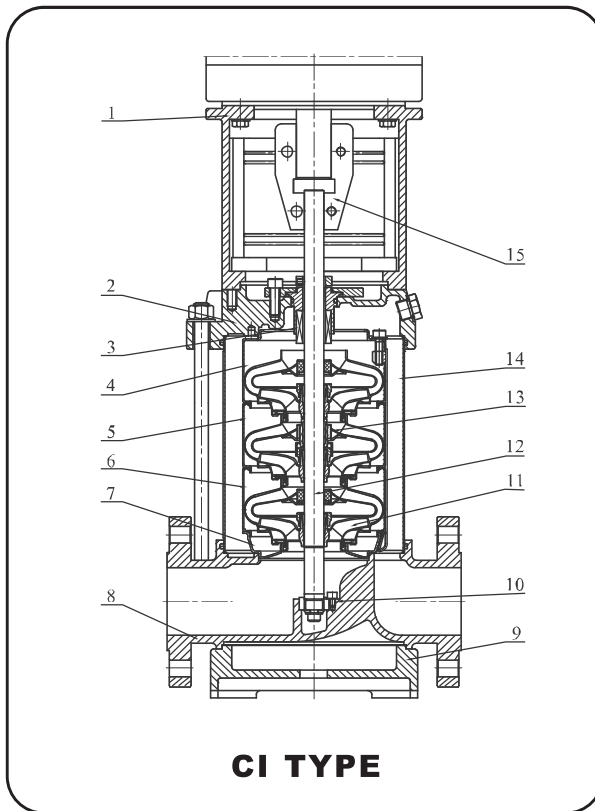


SS TYPE

VMS8,12,15,20

NO.	Name	Material	AISI/ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal		
5	Top diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Support diffuser	Stainless steel	AISI304
8	Inducer	Stainless steel	AISI304
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304/316L
14	Impeller sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
VMS stainless steel type			
3	Seal base	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B
VMS cast iron type			
9	Inlet and outlet chamber	Cast iron	ASTM25B

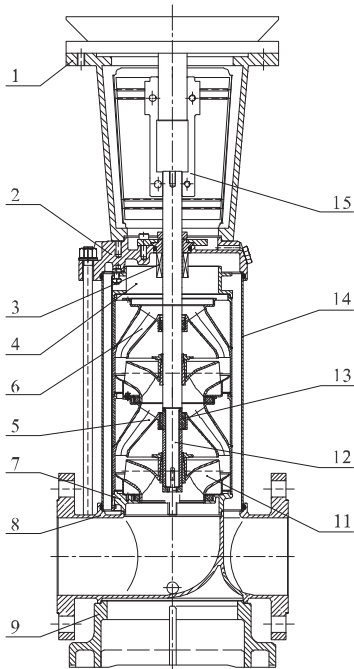
General arrangement drawing



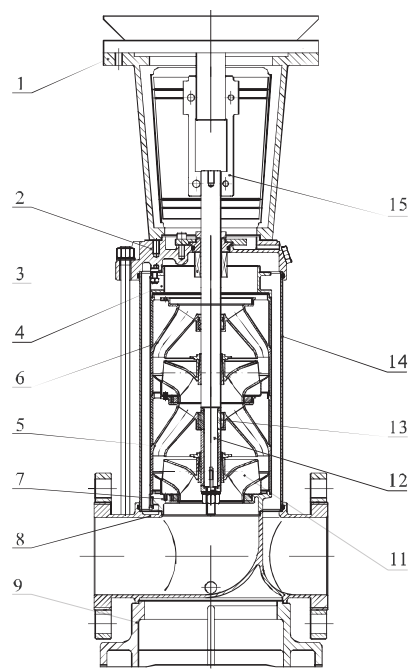
VMS32,42,65,85

NO.	Name	Material	AISI/ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal		
4	Top diffuser	Stainless steel	AISI304
5	Support diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Inducer	Stainless steel	AISI304
9	Base plate	Cast iron	ASTM25B
10	Bottom bearing	Tungsten carbide	
11	Impeller	Stainless steel	AISI304
12	Shaft	Stainless steel	AISI304/316L/431
13	Intermediate bearing	Tungsten carbide	
14	Cylinder	Stainless steel	AISI304
15	Coupling	Carbon steel	
	Rubber parts	NBR	
VMS cast iron type			
2	Pump head	Cast iron	ASTM25B
8	Inlet and outlet chamber	Cast iron	ASTM25B
VMS stainless steel type			
2	Pump head	Stainless steel	AISI304
8	Inlet and outlet chamber	Stainless steel	AISI304

General arrangement drawing



CI TYPE

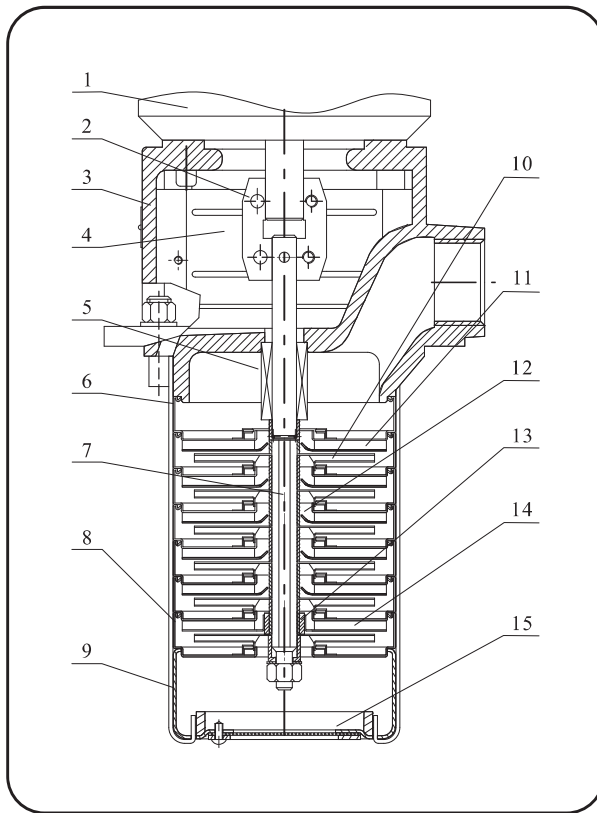


SS TYPE

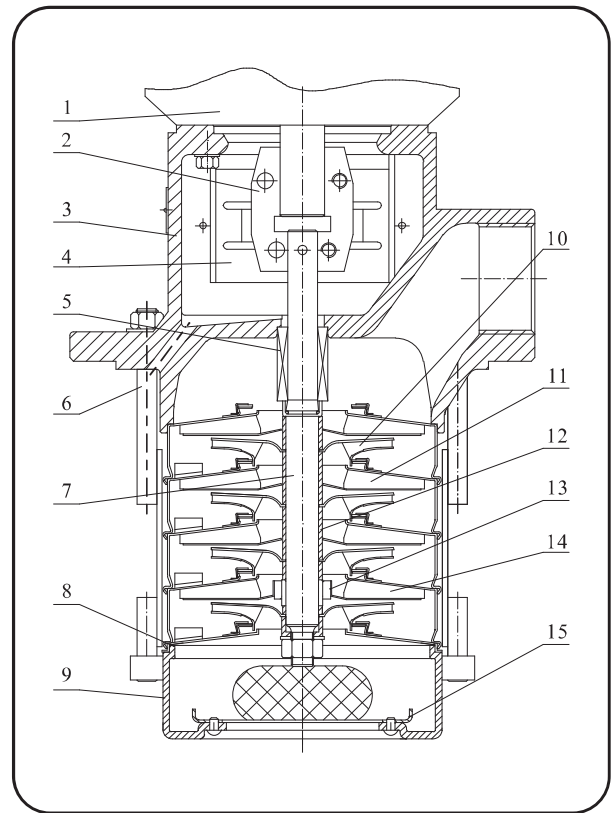
VMS120,150,200

NO.	Name	Material	AISI/ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal		
4	Discharge	Stainless steel	AISI304
5	Support diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Inducer	Stainless steel	AISI304
9	Base plate	Cast iron	ASTM80-55-06
11	Impeller	Stainless steel	AISI304
12	Shaft	Stainless steel	AISI304
13	Bearing	Tungsten carbide	
14	Cylinder	Stainless steel	AISI304
15	Coupling	Carbon steel	
	Rubber parts	NBR	
VMS cast iron type			
2	Pump head	Cast iron	ASTM80-55-06
8	Inlet and outlet chamber	Cast iron	ASTM80-55-06
VMS stainless steel type			
2	Pump head	Stainless steel	AISI304
8	Inlet and outlet chamber	Stainless steel	AISI304

General arrangement drawing



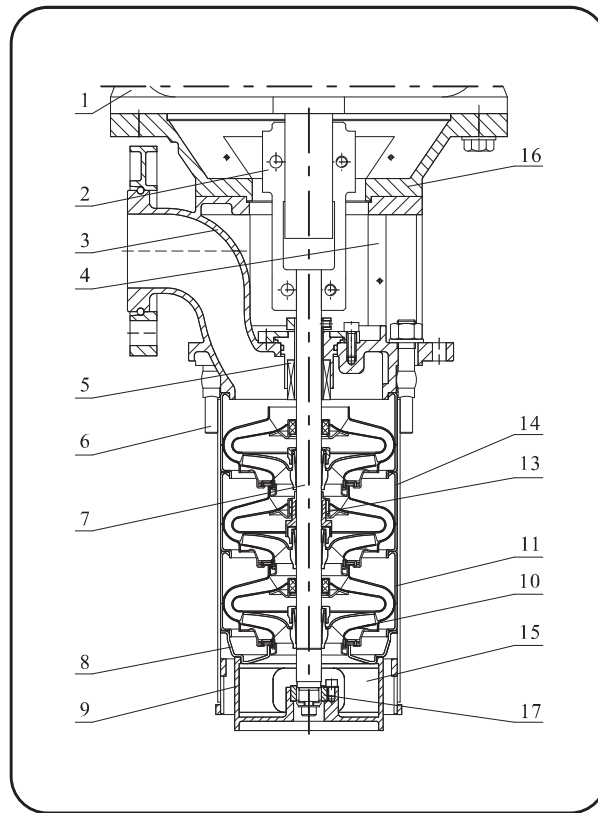
VMSK1,3



VMSK8,12,15,20

Item No	Name	Material	AISI/ASTM
1	Motor		
2	Coupling	Carbon steel	
3	Pump head	Cast iron/Stainless steel	ASTM25B/AISI304
4	Coupling guard	Stainless steel	ASI304
5	Mechanical seal	Stainless steel	
6	Straps	Stainless steel	AISI304
7	Shaft	Stainless steel	AISI316
8	Inducer	Stainless steel	AISI304
9	Suction head	Stainless steel	AISI304
10	Impeller	Stainless steel	AISI304
11	Diffuser	Stainless steel	AISI304
12	Impeller sleeve	Stainless steel	AISI304
13	Bearing	Tungsten carbide	
14	Support diffuser	Stainless steel	AISI304
15	Strainer	Stainless steel	AISI304
	Rubber parts	FPM	

General arrangement drawing



VMSK32,42

Item No	Name	Material	AISI/ASTM
1	Motor		
2	Coupling	Carbon steel	
3	Pump head	Cast iron/Stainless steel	ASTM25B/AISI304
4	Coupling guard	Stainless steel	ASI304
5	Mechanical seal		
6	Straps	Stainless steel	AISI304
7	Shaft	Stainless steel	AISI316/AISI304/AISI431
8	Inducer	Stainless steel	AISI304
9	Suction head	Stainless steel	AISI304
10	Impeller	Stainless steel	AISI304
11	Diffuser	Stainless steel	AISI304
13	Bearing	Tungsten carbide	
14	Support diffuser	Stainless steel	AISI304
15	Strainer	Stainless steel	AISI304
16	Crossover flange	Cast iron	AISI304
17	Bottom bearing	Tungsten carbide	
	Rubber part	FPM	

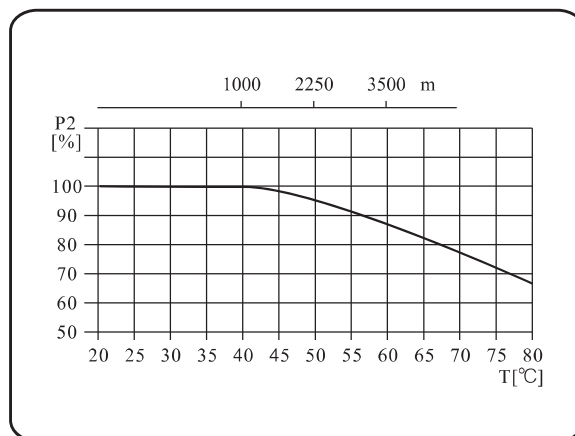
Max working pressure

Model	Max. pressure (bar)
VMS1,2,3,4 cast iron type flange	25
VMS1,2,3,4 oval flange	16
VMS1,2,3,4 stainless steel type flange, cutting ferrule joint, pipe thread	25
VMS8,10,12,15,20 cast iron type flange	25
VMS8 oval flange	16
VMS8,10,12,15,20 stainless steel type flange, cutting ferrule joint, pipe thread	25
VMS32 cast iron type	
32-10-1 ~ 32-80	16(30)
32-90-2 ~ 32-160	30
VMS32 stainless steel type	30
VMS42 cast iron type	
42-10-1 ~ 42-60-2	16(30)
42-60 ~ 42-90	25(30)
42-100-2 ~ 42-130-2	30
VMS42 stainless steel type	
42-10-1 ~ 42-90	25(30)
42-100-2 ~ 42-130-2	30
VMS65 cast iron type	
65-10-1 ~ 65-50-2	16(25)
65-50-1 ~ 65-80-1	25
VMS85 cast iron type	
85-10-1 ~ 85-40-2	16(25)
85-40 ~ 85-60	25
VMS65,85 stainless steel type	25
VMS120,150,200	20

Pumps with pressure inside brackets need to specify especially.

Max. Ambient temperature

When the pump operates under ambient temperature higher than 40°C or under altitude higher than 1000m, because of low air density and poor cooling effects, the motor output power P2 will be decreased to certain extent. If the pump is operated under the above-said conditions, it should be equipped with motor of higher power.



Minimum inlet pressure NPSH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitations will occur. To avoid cavitations, a minimum pressure at the inlet side of the pump shall be guaranteed. The maximum suction stroke can be calculated with following formula:

$$H = P_b \times 10.2 - \text{NPSH} - H_f - H_v - H_s$$

P_b = atmosphere pressure [bar]

(Can be set as 1 bar)

In a closed system, P_b means system pressure [bar]

NPSH = Net positive suction head [m]

(It can be read out from the point of possible max. flow rate shown on NPSH curve)

H_f = Pipeline loss at the inler [m]

H_v = Steam pressure [m]

H_s = Safety margin = Minimum 0.5m delivery head

If the calculated result H is positive, the pump may run under the max. Suction stroke H .

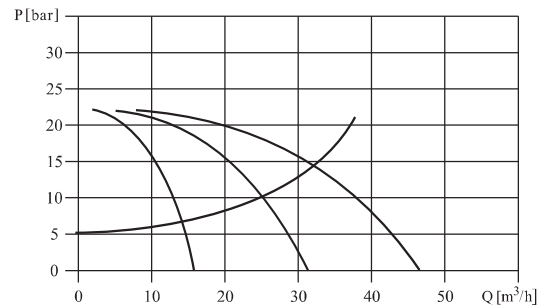
In case the calculated result H is negative, a delivery head of min. Inlet pressure is necessary.

Operation in parallel

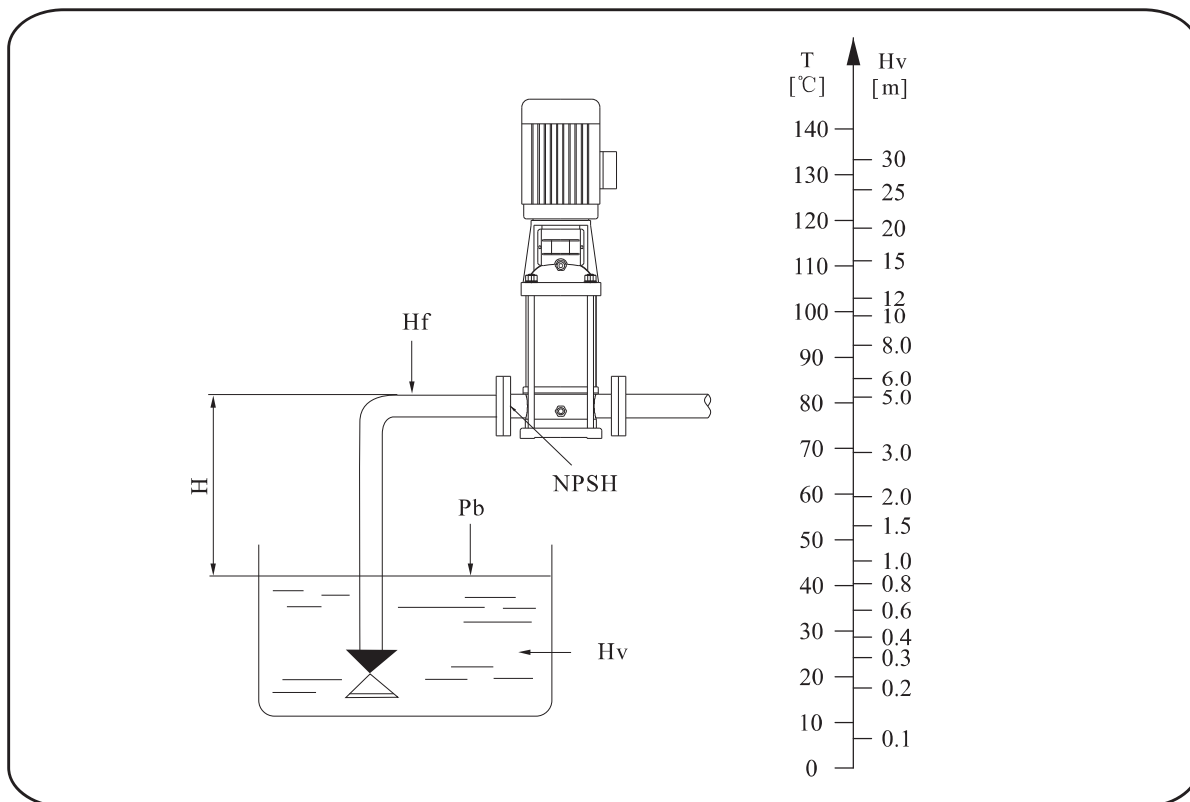
Connecting several pumps in parallel running will ben-eft much more than running a single large pump.

- Applicable to different working states necessary in a variable flow different working states necessary in a variable flow system.

- Increasing the possibility of water supply when the pump is in failure. Becanse in case of pump failure, only part of the system flow is effected.



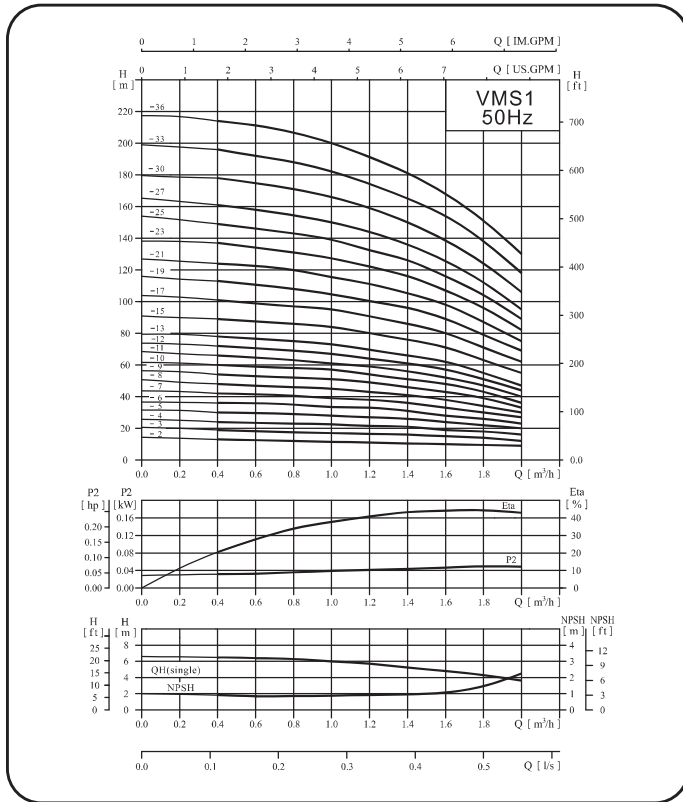
Two pumps or more can be connected in parallel runni-ng if necessary.



Check and ensure that the pump is not at cavitations state.

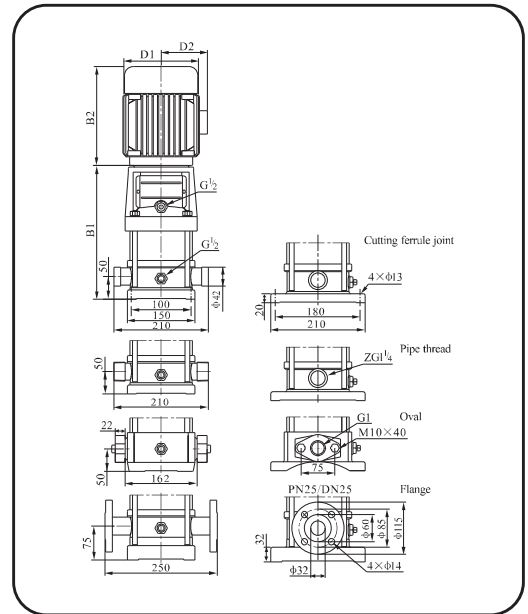
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 1

Installation sketch



Performance table

Model	Driving motor (kw) (hp)	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
VMS1-20	0.37 0.5	H (m)	13	12.5	12	11.5	11	10.5	10	9.5	9
VMS1-30	0.37 0.5		19	18	17.5	17	16.5	16	15	14	12
VMS1-40	0.37 0.5		24	23.5	23	22.5	21.5	21	19	18	16
VMS1-50	0.37 0.5		30	29.6	29	28	27	26	24	22	20
VMS1-60	0.37 0.5		36	35.5	35	33.5	33	31	28	26	23
VMS1-70	0.37 0.5		42	41	40.5	39	38	36	33	30	27
VMS1-80	0.55 0.75		48	47	46	45	43	41	38	34	30
VMS1-90	0.55 0.75		54	53	52	51	49	46	43	39	33
VMS1-100	0.55 0.75		60	59	58	57	54	51	48	43	36
VMS1-110	0.55 0.75		66	65	63	61	59	56	52	47	40
VMS1-120	0.75 1		72	71	69	67	64	61	57	51	44
VMS1-130	0.75 1		78	77	75	73	69	66	62	55	47
VMS1-150	0.75 1		89	88	86	84	79	76	71	63	55
VMS1-170	1.1 1.5		101	99	97	95	89	86	80	71	62
VMS1-190	1.1 1.5		113	110	108	106	99	96	89	79	69
VMS1-210	1.1 1.5		124	122	120	117	110	106	98	87	75
VMS1-230	1.1 1.5		137	133	131	128	121	116	107	96	82
VMS1-250	1.5 2		149	145	143	139	131	126	116	104	89
VMS1-270	1.5 2		161	157	155	150	141	136	125	112	95
VMS1-300	1.5 2		178	175	171	166	157	150	139	124	106
VMS1-330	2.2 3		196	192	188	183	173	165	154	137	118
VMS1-360	2.2 3		214	210	205	200	190	181	169	151	130

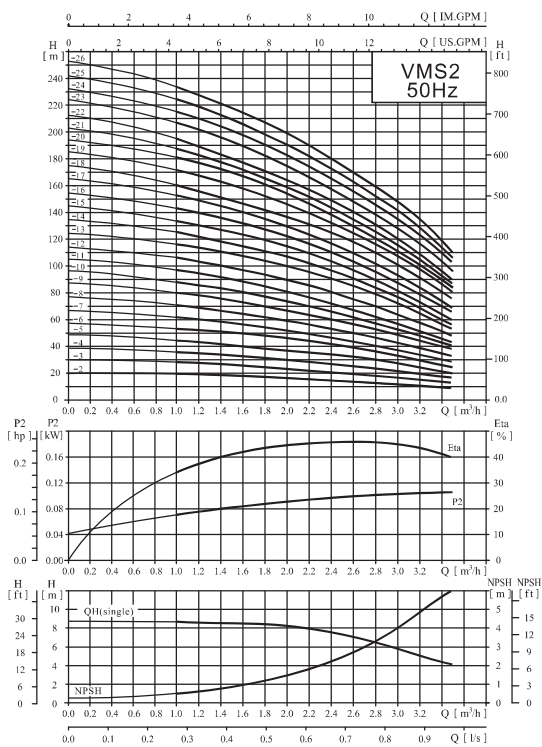
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS1-20	258	225	483	148	117	20
VMS1-30	276	225	501	148	117	20
VMS1-40	294	225	519	148	117	21
VMS1-50	312	225	537	148	117	21
VMS1-60	330	225	555	148	117	22
VMS1-70	348	225	573	148	117	23
VMS1-80	366	225	591	148	117	24
VMS1-90	384	225	609	148	117	25
VMS1-100	402	225	627	148	117	26
VMS1-110	420	225	645	148	117	26
VMS1-120	448	245	693	170	142	29
VMS1-130	466	245	711	170	142	30
VMS1-150	502	245	747	170	142	31
VMS1-170	538	245	783	170	142	33
VMS1-190	574	245	819	170	142	34
VMS1-210	610	245	855	170	142	35
VMS1-230	646	245	891	170	142	36
VMS1-250	692	290	982	190	155	42
VMS1-270	728	290	1018	190	155	43
VMS1-300	782	290	1072	190	155	45
VMS1-330	836	290	1126	190	155	49
VMS1-360	890	290	1180	190	155	51

VMS1-250~1-360 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

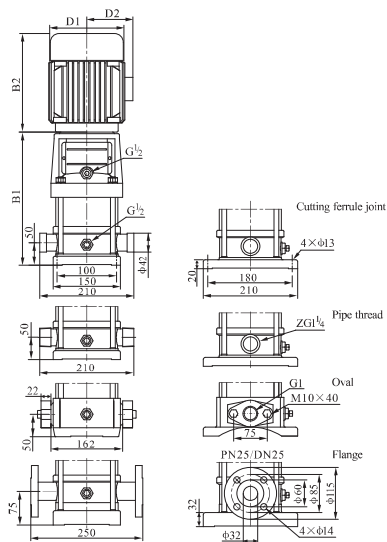
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 2

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)	1	1.2	1.6	2.0	2.4	2.8	3.2	3.5
	(kw)	(hp)									
VMS2-20	0.37	0.5	H (m)	18	17	16	15	13	12	10	8
VMS2-30	0.37	0.5		27	26	24	22	20	18	15	12
VMS2-40	0.55	0.75		36	35	33	30	26	24	20	16
VMS2-50	0.55	0.75		45	43	40	37	33	30	24	20
VMS2-60	0.75	1		53	52	50	45	40	36	30	24
VMS2-70	0.75	1		63	61	57	52	47	41	35	28
VMS2-90	1.1	1.5		80	78	73	67	61	54	45	37
VMS2-110	1.1	1.5		98	95	89	82	73	64	54	44
VMS2-130	1.5	2		116	114	106	98	89	78	65	52
VMS2-150	1.5	2		134	130	123	112	100	90	73	60
VMS2-180	2.2	3		161	157	148	136	121	108	91	76
VMS2-220	2.2	3		197	192	180	165	148	130	110	90
VMS2-260	3.0	4		232	228	214	198	179	158	130	110

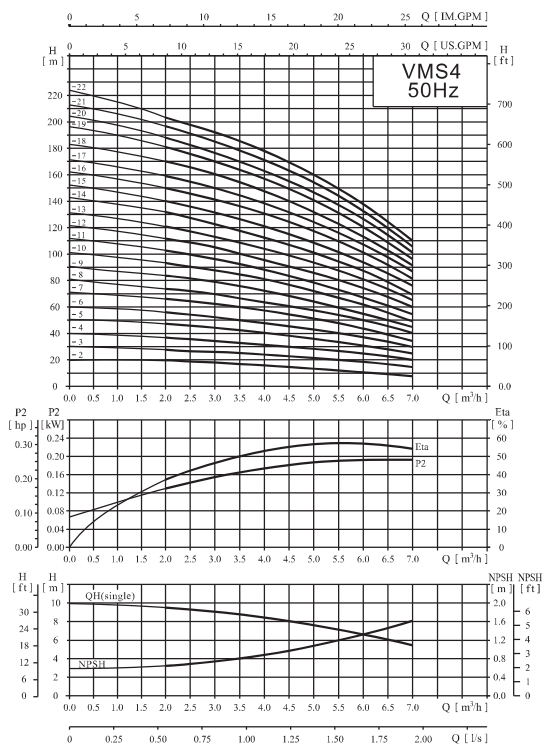
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS2-20	258	225	483	148	117	20
VMS2-30	276	225	501	148	117	20
VMS2-40	294	225	519	148	117	22
VMS2-50	312	225	537	148	117	23
VMS2-60	340	245	585	170	142	26
VMS2-70	358	245	603	170	142	26
VMS2-90	394	245	639	170	142	28
VMS2-110	430	245	675	170	142	29
VMS2-130	476	290	766	190	155	35
VMS2-150	512	290	802	190	155	36
VMS2-180	566	290	856	190	155	41
VMS2-220	638	290	928	190	155	42
VMS2-260	720	345	1065	197	165	52

VMS2-180~2-260 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

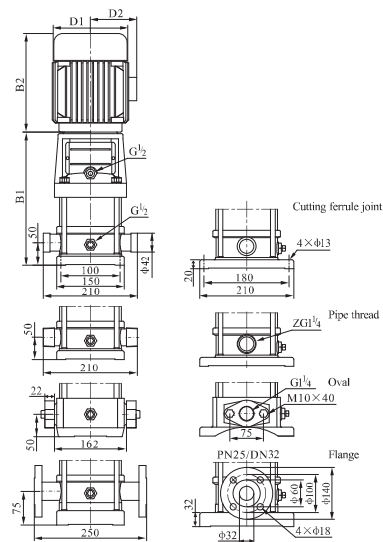
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 4

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)	1.5	2.0	3.0	4.0	5.0	6.0	7.0
	(Kw)	(hp)								
VMS4-20	0.37	0.5	H (m)	19	18	17	15	13	10	8
VMS4-30	0.55	0.75		28	27	26	24	20	18	13
VMS4-40	0.75	1		38	36	34	32	27	24	19
VMS4-50	1.1	1.5		47	45	43	40	34	31	23
VMS4-60	1.1	1.5		56	54	52	48	41	37	28
VMS4-70	1.5	2		66	63	61	56	48	43	33
VMS4-80	1.5	2		74	72	70	64	55	50	38
VMS4-100	2.2	3		96	90	87	81	71	62	48
VMS4-120	2.2	3		114	108	104	95	85	75	58
VMS4-140	3.0	4		136	126	122	112	101	89	68
VMS4-160	3.0	4		152	144	140	129	115	101	78
VMS4-190	4.0	5.5		183	171	168	153	137	122	93
VMS4-220	4.0	5.5		211	200	192	178	160	138	108

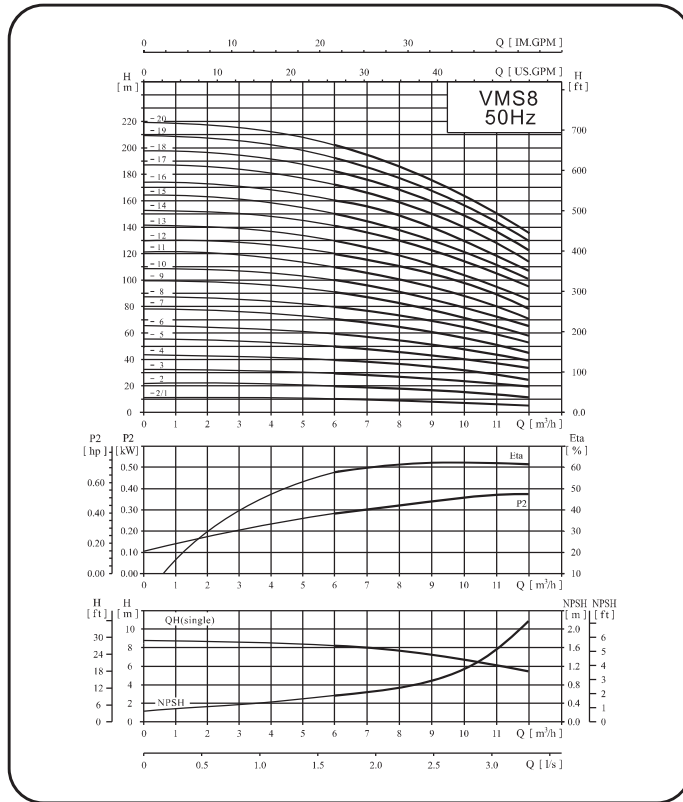
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS4-20	276	225	501	148	117	21
VMS4-30	303	225	528	148	117	22
VMS4-40	340	244	585	170	142	25
VMS4-50	367	245	612	170	142	27
VMS4-60	394	245	639	170	142	27
VMS4-70	431	290	721	190	155	33
VMS4-80	458	290	748	190	155	33
VMS4-100	512	290	802	190	155	37
VMS4-120	566	290	856	190	155	38
VMS4-140	630	345	975	197	165	46
VMS4-160	684	345	1029	197	165	48
VMS4-190	765	355	1120	230	188	57
VMS4-220	846	355	1201	230	188	59

VMS4-190~4-220 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

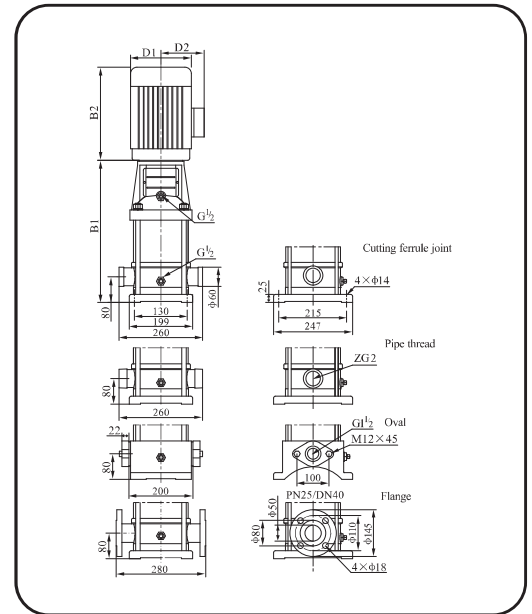
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 8

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)	5	6	7	8	9	10	11	12
	(kw)	(hp)									
VMS8-20/1	0.75	1	H (m)	10	9.5	9.3	9	8.5	8	7	6
VMS8-20	0.75	1		20	19.5	19	18	17	16	14	13
VMS8-30	1.1	1.5		30	29.5	28.5	27	25	24	21	19
VMS8-40	1.5	2		41	39.5	38	36	34	32	28	26
VMS8-50	2.2	3		52	50	48	45	42	40	36	32
VMS8-60	2.2	3		62	60	57	54	51	48	43	39
VMS8-80	3.0	4		83	80	77	73	69	65	58	52
VMS8-100	4.0	5.5		104	100	97	92	87	81	73	65
VMS8-120	4.0	5.5		124	120	116	111	104	92	87	78
VMS8-140	5.5	7.5		145	141	136	130	122	113	102	92
VMS8-160	5.5	7.5		166	161	156	148	139	130	118	106
VMS8-180	7.5	10		187	182	175	167	157	146	134	120
VMS8-200	7.5	10		208	202	195	186	175	163	150	135

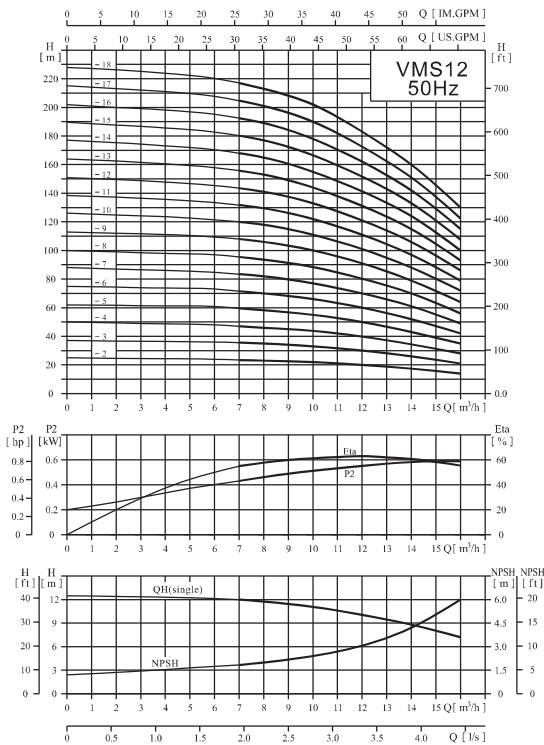
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS8-20/1	347	245	592	170	142	32
VMS8-20	347	245	592	170	142	32
VMS8-30	377	245	622	170	142	34
VMS8-40	417	290	707	190	155	40
VMS8-50	447	290	737	190	155	44
VMS8-60	477	290	767	190	155	45
VMS8-80	547	345	892	197	165	53
VMS8-100	607	355	962	230	188	64
VMS8-120	667	355	1022	230	188	66
VMS8-140	747	390	1137	260	208	81
VMS8-160	807	390	1197	260	208	84
VMS8-180	867	390	1257	260	208	93
VMS8-200	927	390	1317	260	208	94

VMS8-140~8-200 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

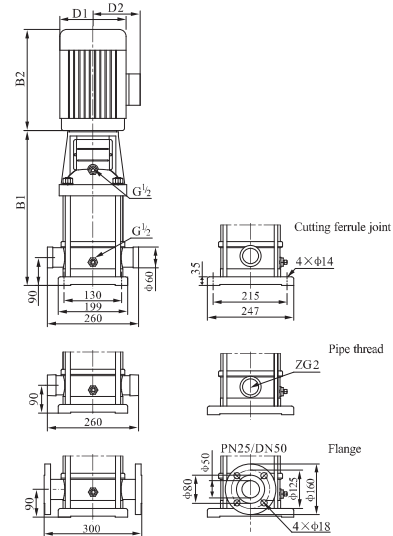
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 12

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)																
	(kw)	(hp)		7	8	9	10	11	12	13	14	15	16						
VMS12-20	1.5	2	H (m)	23.5	23	22.5	22	21	20	18.5	17	15.5	14						
VMS12-30	2.2	3		35.5	35	34	33	31.5	30	28	26	23.5	21						
VMS12-40	3	4		47	46	45	44	42	40	37	34	31	28						
VMS12-50	3	4		59.5	58	56.5	55	52.5	50	46.5	43	39	35						
VMS12-60	4	5.5		71.5	70	68	66	63	60	56	52	47	42						
VMS12-70	5.5	7.5		83.5	82	79.5	77	73.5	70	65.5	61	55	49						
VMS12-80	5.5	7.5		95.5	94	91	88	84	80	75	70	63	56						
VMS12-90	5.5	7.5		108	106	103	100	95.5	91	85	79	71.5	64						
VMS12-100	7.5	10		120	118	114.5	111	106	101	94.5	88	80	72						
VMS12-120	7.5	10		143.5	141	137	133	127	121	113.5	106	96	86						
VMS12-140	11	15		168	165	160	155	148	141	132.5	124	112	100						
VMS12-160	11	15		192.5	189	183.5	178	170	162	152	142	128.5	115						
VMS12-180	11	15		217	213	207.5	202	192.5	183	171.5	160	145	130						

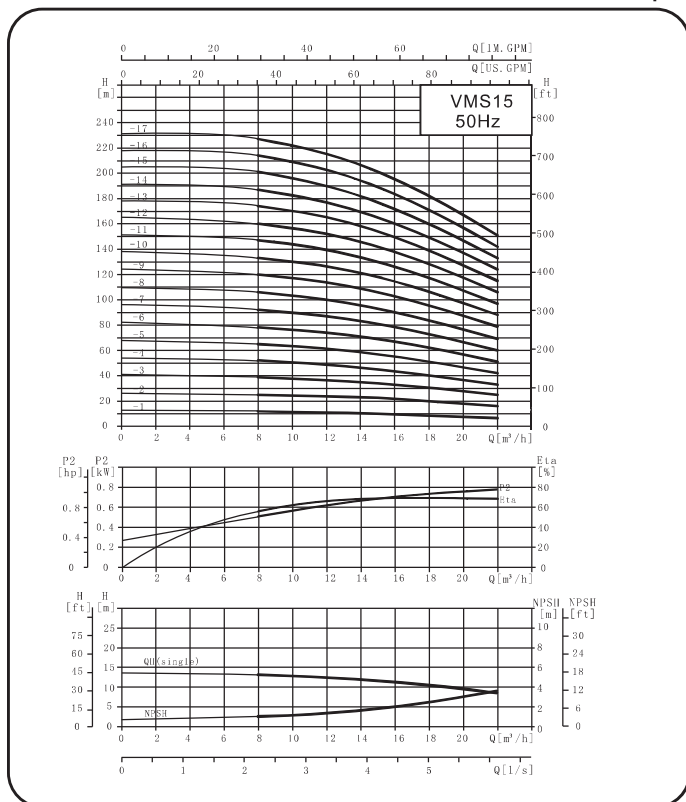
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS12-20	367	290	657	190	155	39
VMS12-30	397	290	687	190	155	43
VMS12-40	437	345	782	197	165	51
VMS12-50	467	345	812	197	165	53
VMS12-60	497	355	852	230	188	61
VMS12-70	547	390	937	260	208	73
VMS12-80	577	390	967	260	208	74
VMS12-90	607	390	997	260	208	76
VMS12-100	637	390	1027	260	208	83
VMS12-120	697	390	1087	260	208	87
VMS12-140	845	500	1345	330	255	157
VMS12-160	905	500	1405	330	255	161
VMS12-180	965	500	1405	330	255	164

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

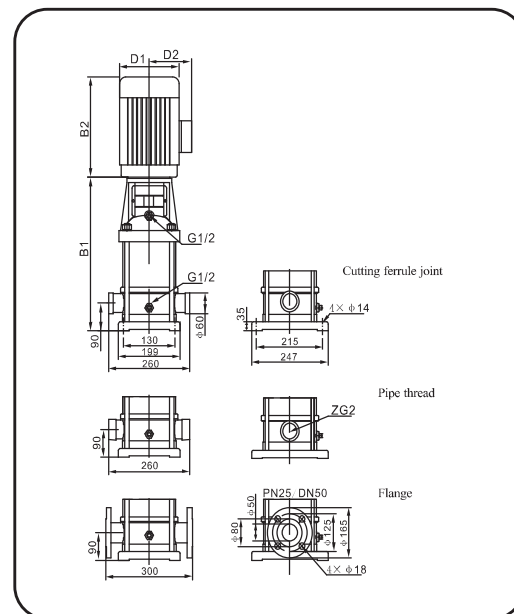
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 15

Installation sketch



Performance table

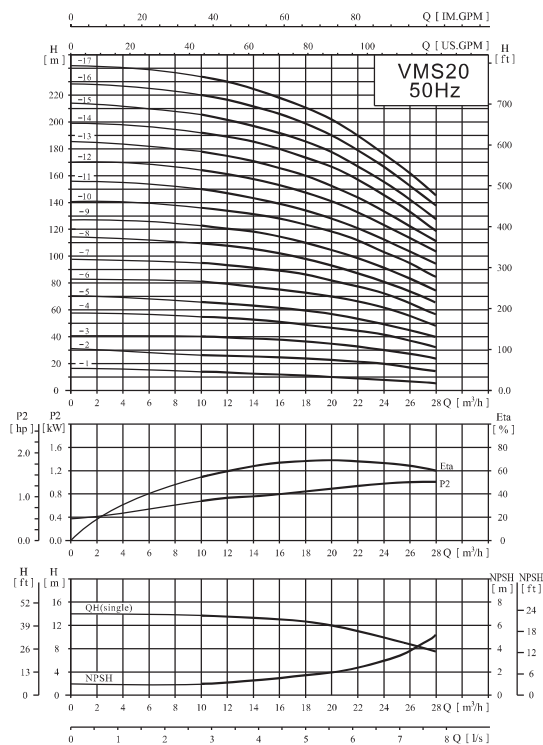
Model	Driving motor		Q (m³/h)	8	10	12	14	15	16	18	20	22
	(kW)	(HP)										
VMS15-10	1.1	1.5	H (m)	12	11.5	11	10.5	10	9.5	8.5	7.5	6.5
VMS15-20	2.2	3		25	24.5	24	23	22.5	21.5	20	18	16
VMS15-30	3	4		39	38	37	35	34	33	30	28	25
VMS15-40	4	5.5		52	51	49	46	45	44	40	37	33
VMS15-50	4	5.5		65	63	61	59	57	55	51	47	42
VMS15-60	5.5	7.5		78	76	74	71	69	67	62	57	51
VMS15-70	5.5	7.5		92	90	87	83	81	79	73	67	60
VMS15-80	7.5	10		106	103	100	96	93	90	84	77	69
VMS15-90	7.5	10		120	117	114	109	106	103	95	87	79
VMS15-100	11	15		133	130	126	121	118	114	106	97	88
VMS15-120	11	15		160	157	152	146	142	138	128	117	106
VMS15-140	11	15		187	182	177	169	165	160	149	137	124
VMS15-170	15	20		227	222	215	206	201	195	182	167	151

Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS15-10	387	245	632	170	142	33
VMS15-20	397	290	687	190	155	42
VMS15-30	452	345	797	197	165	51
VMS15-40	497	355	852	230	188	60
VMS15-50	542	355	897	230	188	62
VMS15-60	607	390	997	260	208	78
VMS15-70	652	390	1042	260	208	80
VMS15-80	697	390	1087	260	208	86
VMS15-90	742	390	1132	260	208	88
VMS15-100	875	500	1375	330	255	157
VMS15-120	965	500	1465	330	255	161
VMS15-140	1055	500	1555	330	255	165
VMS15-170	1190	500	1690	330	255	178

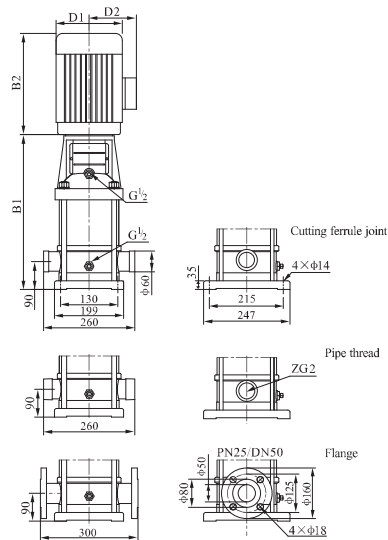
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 20

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)	10	12	14	16	18	20	22	24	26	28
	(kw)	(hp)											
VMS20-10	1.1	1.5	H (m)	13.5	13	12.5	12	11	10	9	8	7	6
VMS20-20	2.2	3		27	26.5	26	25	24	23	22	20	18	15
VMS20-30	4.0	5.5		40	39.5	39	38	37	35	33	30	27	24
VMS20-40	5.5	7.5		54	53	52	51	49	47	44	41	37	33
VMS20-50	5.5	7.5		67	66	64	62	60	58	55	50	45	40
VMS20-60	7.5	10		81	79	77	75	73	70	66	61	55	49
VMS20-70	7.5	10		95	93	91	89	86	82	77	71	65	58
VMS20-80	11	15		109	107	105	102	99	94	89	82	75	67
VMS20-100	11	15		136	134	131	128	124	118	111	103	95	85
VMS20-120	15	20		164	162	158	154	149	142	133	124	114	102
VMS20-140	15	20		192	189	185	180	174	166	156	145	133	119
VMS20-170	18.5	25		234	230	225	219	212	202	190	177	162	145

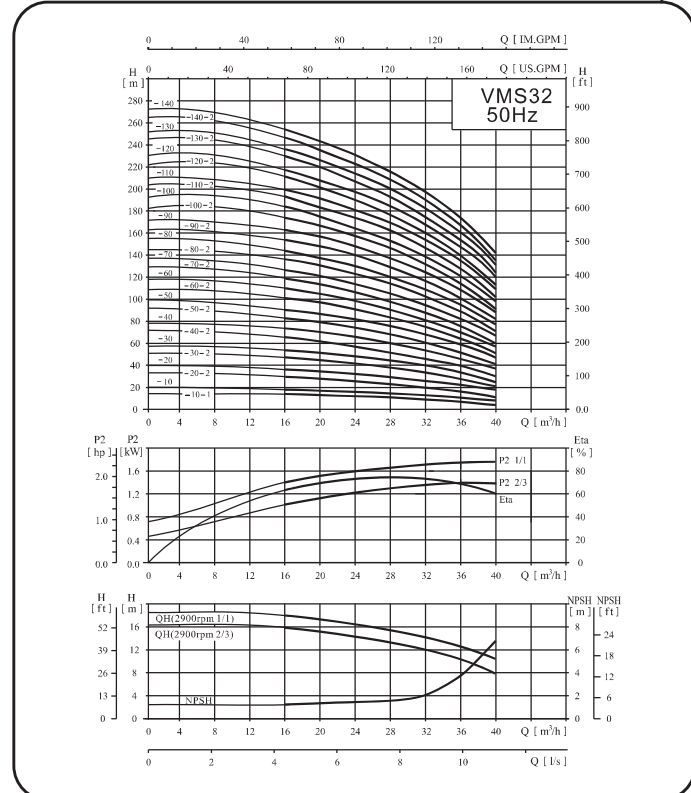
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS20-10	387	245	632	170	142	33
VMS20-20	397	290	687	190	155	42
VMS20-30	452	335	807	230	188	58
VMS20-40	517	390	907	260	208	74
VMS20-50	562	390	952	260	208	76
VMS20-60	607	390	997	260	208	82
VMS20-70	652	390	1042	260	208	84
VMS20-80	785	500	1285	330	255	153
VMS20-100	875	500	1375	330	255	157
VMS20-120	965	500	1465	330	255	170
VMS20-140	1055	500	1555	330	255	172
VMS20-170	1190	550	1740	330	255	195

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

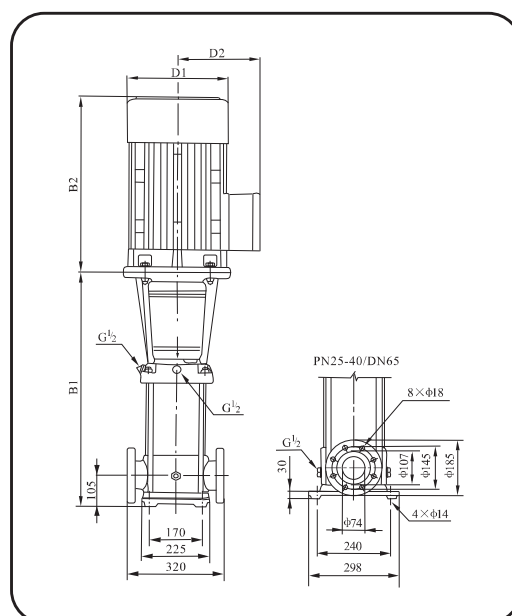
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 32

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)	16	20	24	28	32	36	40
	(kw)	(hp)								
VMS32-10-1	1.5	2		14	13	12	11	9	7	4
VMS32-10	2.2	3		18	17	15	14	13	11	8
VMS32-20-2	3.0	4		29	28	26	23	20	16	11
VMS32-20	4.0	5.5		36	34	32	29	27	23	18
VMS32-30-2	5.5	7.5		47	44	41	38	33	28	21
VMS32-30	5.5	7.5		54	51	48	44	40	35	27
VMS32-40-2	7.5	10		65	62	58	53	46	40	30
VMS32-40	7.5	10		72	69	65	59	53	47	37
VMS32-50-2	11	15		83	79	74	68	60	52	41
VMS32-50	11	15		90	86	81	74	67	59	47
VMS32-60-2	11	15		101	97	90	83	74	65	51
VMS32-60	11	15		108	104	97	90	81	72	57
VMS32-70-2	15	20		119	114	107	98	88	78	60
VMS32-70	15	20		126	121	113	105	95	85	67
VMS32-80-2	15	20		136	131	123	114	102	90	71
VMS32-80	15	20		144	138	130	120	109	97	77
VMS32-90-2	18.5	25		154	148	140	129	117	102	82
VMS32-90	18.5	25		162	156	147	136	124	109	88
VMS32-100-2	18.5	25		175	166	157	146	131	115	91
VMS32-100	18.5	25		182	173	164	152	138	122	98
VMS32-110-2	22	30		193	184	173	164	146	128	102
VMS32-110	22	30		200	191	180	168	153	135	109
VMS32-120-2	22	30		211	201	189	178	160	140	113
VMS32-120	22	30		218	208	196	184	167	147	120
VMS32-130-2	30	40		230	218	206	193	174	153	124

Size and weight

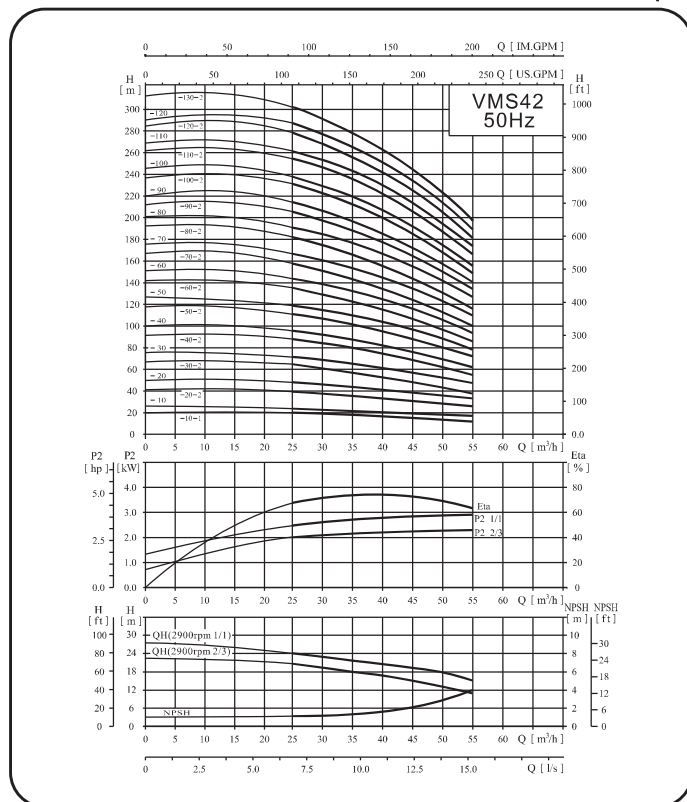
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS32-10-1/VMS32-10	505	290	795	190	155	64/68
VMS32-20-2/VMS32-20	575	345/355	920/930	197/230	165/180	77/85
VMS32-30-2/VMS32-30	645	390	1035	260	208	100
VMS32-40-2/VMS32-40	715	390	1105	260	208	109
VMS32-50-2/VMS32-50	890	500	1390	330	255	181
VMS32-60-2/VMS32-60	960	500	1460	330	255	185
VMS32-70-2/VMS32-70	1030	500	1530	330	255	199
VMS32-80-2/VMS32-80	1100	500	1600	330	255	203
VMS32-90-2/VMS32-90	1170	550	1720	330	255	222
VMS32-100-2/VMS32-100	1240	550	1790	330	255	227
VMS32-110-2/VMS32-110	1310	575	1885	360	285	272
VMS32-120-2/VMS32-120	1380	575	1955	360	285	276
VMS32-130-2/VMS32-130	1450	650	2100	400	310	337
VMS32-140-2/VMS32-140	1520	650	2170	400	310	341
VMS32-150-2/VMS32-150	1590	650	2240	400	310	345
VMS32-160-2/VMS32-160	1660	650	2310	400	310	350

Model	Driving motor		Q (m³/h)	16	20	24	28	32	36	40
	(kw)	(hp)								
VMS32-130	30	40		237	225	213	200	181	160	131
VMS32-140-2	30	40		247	235	222	210	189	165	135
VMS32-140	30	40		255	242	229	216	196	172	142
VMS32-150-2	30	40		266	253	239	224	203	178	145
VMS32-150	30	40		274	260	246	231	210	185	152
VMS32-160-2	30	40		284	270	255	240	218	190	156
VMS32-160	30	40		292	277	262	246	225	197	163

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

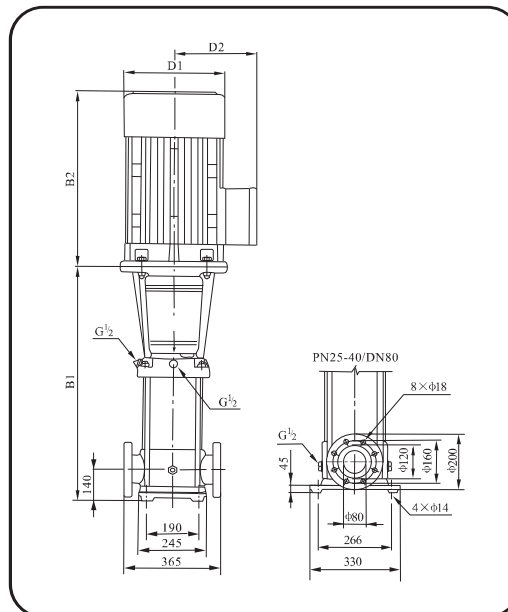
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 42

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)								
	(kw)	(hp)		25	30	35	40	42	45	50	55
VMS42-10-1	3.0	4	H (m)	20	19	18	17	16	15	13	11
VMS42-10	4.0	5.5		24	23	22	21	20	19	18	16
VMS42-20-2	5.5	7.5		40	38	36	33	32	30	27	23
VMS42-20	7.5	10		48	46	44	42	41	39	35	31
VMS42-30-2	11	15		63	61	58	54	52	50	44	38
VMS42-30	11	15		71	69	66	63	61	58	53	47
VMS42-40-2	15	20		87	84	80	75	73	69	62	54
VMS42-40	15	20		95	92	88	84	81	78	71	62
VMS42-50-2	18.5	25		111	107	102	96	93	88	80	69
VMS42-50	18.5	25		119	115	110	105	101	97	88	78
VMS42-60-2	22	30		135	130	124	117	113	108	97	85
VMS42-60	22	30		143	138	132	125	122	116	106	93
VMS42-70-2	30	40		158	152	146	138	134	127	115	100
VMS42-70	30	40		166	161	154	146	142	135	124	109
VMS42-80-2	30	40		182	175	168	159	154	146	133	116
VMS42-80	30	40		190	184	176	167	162	154	141	124
VMS42-90-2	30	40		205	198	190	180	174	166	150	132
VMS42-90	37	50		214	207	198	188	183	174	159	140
VMS42-100-2	37	50		230	221	212	200	194	185	168	147
VMS42-100	37	50		238	230	220	209	203	193	177	155
VMS42-110-2	45	60		255	246	236	223	217	206	188	165
VMS42-110	45	60		263	255	244	232	225	214	196	173
VMS42-120-2	45	60		280	270	259	245	238	226	206	181
VMS42-120	45	60		289	280	268	255	247	236	216	190
VMS42-130-2	45	60		305	294	282	267	259	247	225	198

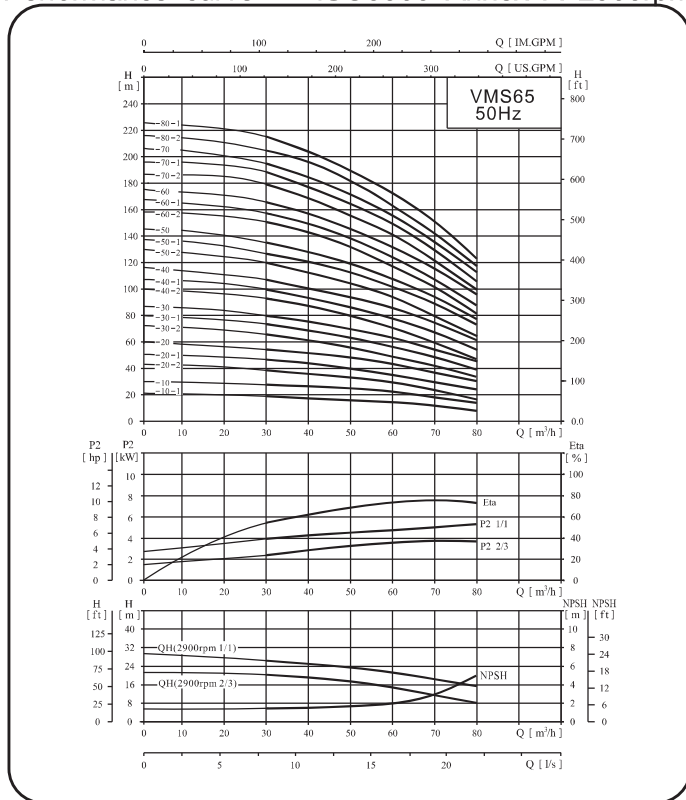
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS42-10-1	561	345/335	876/896	197/230	165/188	83/90
VMS42-10						
VMS42-20-2	641	390	1031	260	208	105/110
VMS42-20						
VMS42-30-2	826	500	1326	330	255	183
VMS42-30						
VMS42-40-2	906	500	1406	330	255	197
VMS42-40						
VMS42-50-2	986	550	1536	330	255	221
VMS42-50						
VMS42-60-2	1066	575	1641	360	285	261
VMS42-60						
VMS42-70-2	1146	650	1796	400	310	320
VMS42-70						
VMS42-80-2	1226	650	1876	400	310	324
VMS42-80						
VMS42-90-2	1306	650	1956	400	310	328/352
VMS42-90						
VMS42-100-2	1386	650	2036	400	310	355
VMS42-100						
VMS42-110-2	1466	685	2151	450	345	426
VMS42-110						
VMS42-120-2	1546	685	2231	450	345	432
VMS42-120						
VMS42-130-2	1626	685	2311	450	345	438

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

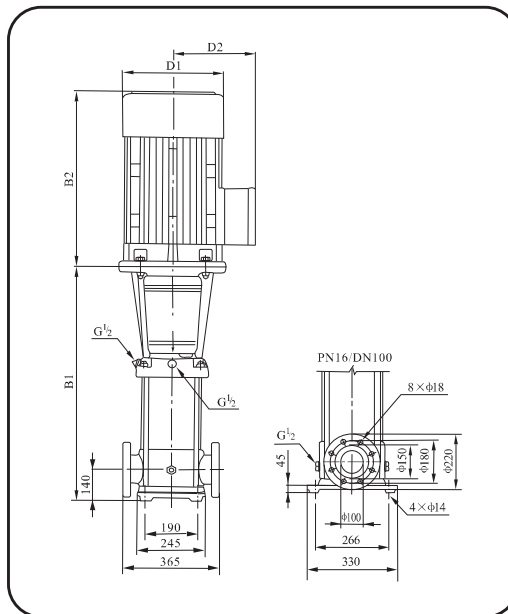
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 65

Installation sketch



Performance table

Model	Driving motor (kw) (hp)		Q (m³/h)	30	40	50	60	65	70	80
VMS65-10-1	4.0	5.5	H (m)	19	18	16	14	13	11	8
VMS65-10	5.5	7.5		27	25	23	21	20	18	15
VMS65-20-2	7.5	10		39	36	33	29	26	23	17
VMS65-20-1	11	15		46	44	40	36	33	30	24
VMS65-20	11	15		53	51	47	43	40	37	30
VMS65-30-2	15	20		66	62	56	50	46	41	32
VMS65-30-1	15	20		73	69	63	57	53	48	39
VMS65-30	18.5	25		80	76	70	64	60	55	46
VMS65-40-2	18.5	25		92	87	80	71	66	60	47
VMS65-40-1	22	30		100	94	87	78	73	67	54
VMS65-40	22	30		107	101	94	85	80	74	61
VMS65-50-2	30	40		121	114	105	95	88	80	64
VMS65-50-1	30	40		128	121	112	102	95	87	71
VMS65-50	30	40		136	129	119	109	102	94	78
VMS65-60-2	30	40		150	142	131	118	110	101	81
VMS65-60-1	37	50		157	149	138	125	117	108	88
VMS65-60	37	50		164	156	145	132	124	115	95
VMS65-70-2	37	50		179	169	156	141	132	121	99
VMS65-70-1	37	50		186	176	163	148	139	128	106
VMS65-70	45	60		193	183	170	155	146	135	112
VMS65-80-2	45	60		207	196	182	164	154	142	116
VMS65-80-1	45	60		215	203	189	171	161	149	123

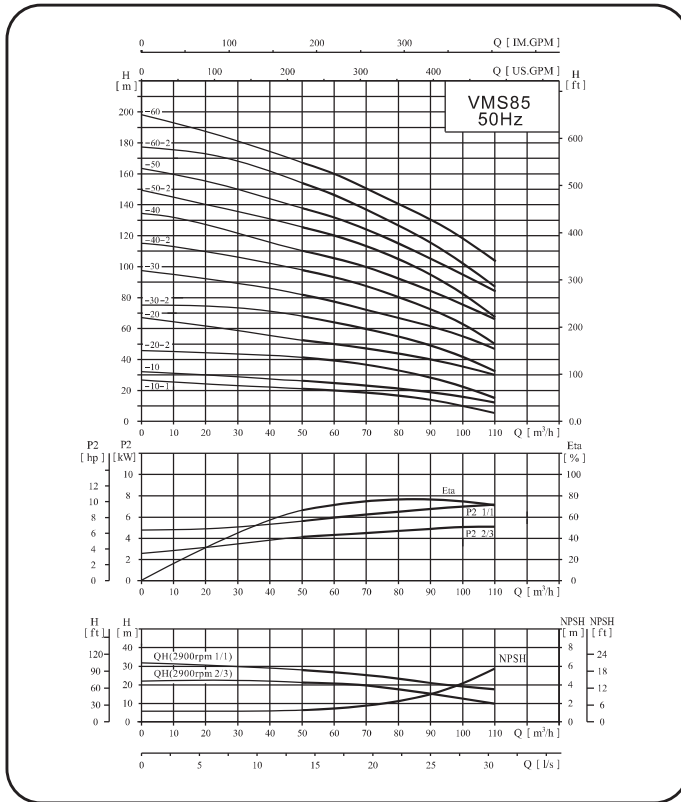
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS65-10-1	561	355	916	230	188	93
VMS65-10	561	390	951	260	208	105
VMS65-20-2	644	390	1034	260	208	110
VMS65-20-1	754	500	1254	330	255	182
VMS65-20	754	500	1254	330	255	182
VMS65-30-2	836	500	1336	330	255	196
VMS65-30-1	836	500	1336	330	255	197
VMS65-30	836	550	1386	330	255	221
VMS65-40-2	919	550	1469	330	255	225
VMS65-40-1	919	575	1494	360	285	258
VMS65-40	919	575	1494	360	285	258
VMS65-50-2	1001	650	1651	400	310	319
VMS65-50-1	1001	650	1651	400	310	319
VMS65-50	1001	650	1651	400	310	320
VMS65-60-2	1084	650	1734	400	310	325
VMS65-60-1	1084	650	1734	400	310	349
VMS65-60	1084	650	1734	400	310	349
VMS65-70-2	1166	650	1816	400	310	353
VMS65-70-1	1166	650	1816	400	310	353
VMS65-70	1166	685	1851	460	340	420
VMS65-80-2	1248	685	1933	460	340	424
VMS65-80-1	1248	685	1933	460	340	424

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.
(For VMS65 series, VMS25-40/VMS100 standard flange is also available if required)

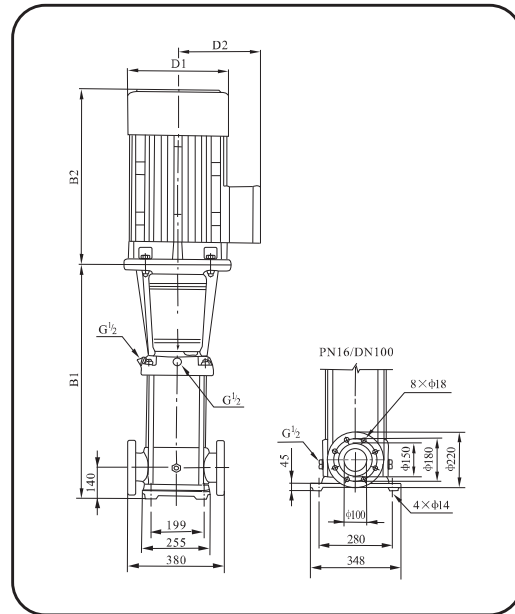
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 85

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)	H (m)						
	(kw)	(hp)		50	60	70	80	85	90	100
VMS85-10-1	5.5	7.5	22	19	17	16	14	13	10	6
VMS85-10	7.5	10	25	24	22	21	20	19	16	12
VMS85-20-2	11	15	41	39	36	32	30	28	22	15
VMS85-20	15	20	53	50	47	44	41	40	36	30
VMS85-30-2	18.5	25	68	65	60	55	52	49	41	32
VMS85-30	22	30	81	77	72	67	64	62	55	48
VMS85-40-2	30	40	98	93	87	80	75	72	62	50
VMS85-40	30	40	110	105	100	92	86	84	76	66
VMS85-50-2	37	50	126	120	113	104	98	93	81	68
VMS85-50	37	50	139	131	124	115	110	106	94	83
VMS85-60-2	45	60	155	148	139	129	122	117	102	86
VMS85-60	45	60	168	160	150	141	134	130	117	103

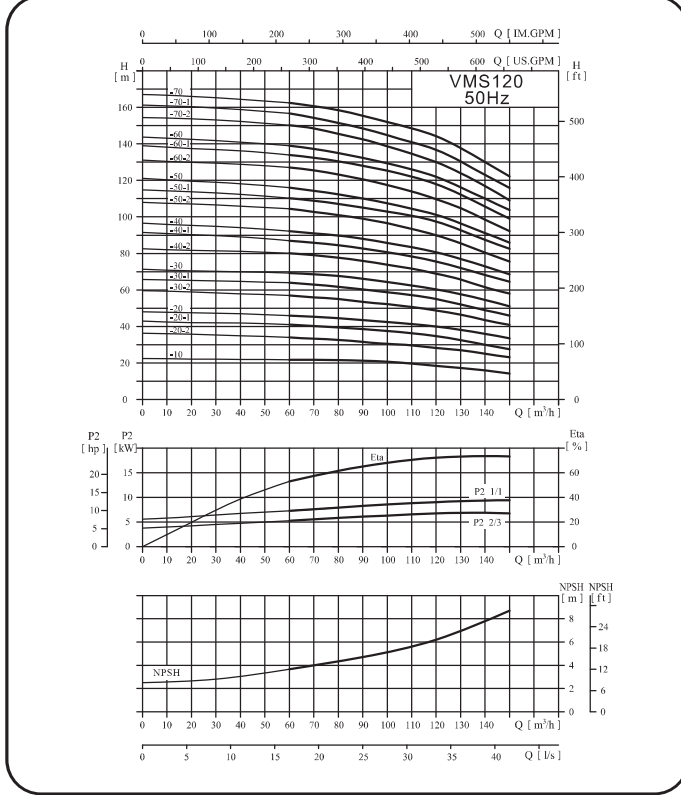
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS85-10-1	571	390	961	260	208	105
VMS85-10	571	390	961	260	208	110
VMS85-20-2	773	500	1273	330	255	181
VMS85-20	773	500	1273	330	255	192
VMS85-30-2	865	550	1415	330	255	215
VMS85-30	865	575	1440	360	285	252
VMS85-40-2	957	650	1607	400	310	312
VMS85-40	957	650	1607	400	310	312
VMS85-50-2	1049	650	1699	400	310	336
VMS85-50	1049	650	1699	400	310	336
VMS85-60-2	1141	685	1826	460	340	407
VMS85-60	1141	685	1826	460	340	407

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.
(For CMS85 series, VMS25-40/VMS100 standard flange is also available if required)

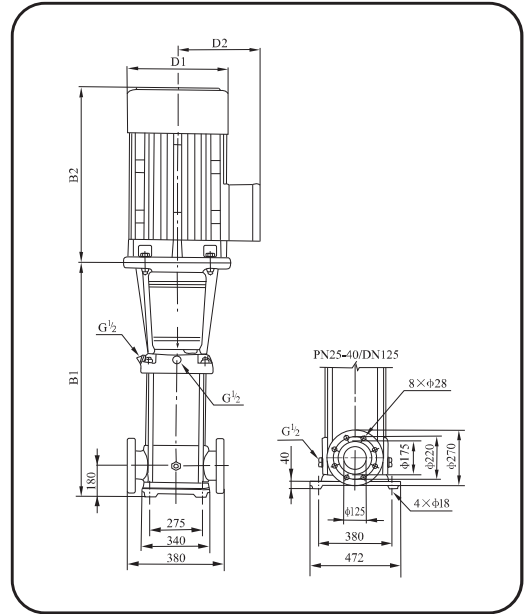
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 120

Installation sketch



Performance table

Model	Driving motor		Q												
	(kw)	(hp)	(m³/h)	60	70	80	90	100	110	120	130	140	150		
VMS120-10	11	15	H (m)	22	21.8	21.6	21	20.5	19.5	18.5	17	16	15		
VMS120-20-2	15	20		34	33.6	33	31	30.2	30	28.5	27	25	24		
VMS120-20-1	18.5	25		41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5		
VMS120-20	22	30		46	45	44.5	43.5	42.4	41	40	38	36	33.5		
VMS120-30-2	30	40		57	56	55	53.5	52	51	49	46.5	43.5	41		
VMS120-30-1	30	40		64	63	62	60	58.5	57.5	55.5	52	49	46		
VMS120-30	30	40		69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51		
VMS120-40-2	37	50		80.5	79	78	76	73.5	72	69	66	61.5	58		
VMS120-40-1	37	50		87	86	84.5	82	80	78	76	72	68	64.5		
VMS120-40	45	60		92.5	91	90	88	85.5	83	81	77	73	68.5		
VMS120-50-2	45	60		104.5	103	101	99	96	93	90	85.5	80.3	75.5		
VMS120-50-1	45	60		110.5	109	107.5	105	102	100	97	92	86.5	83		
VMS120-50	55	75		115.5	114	113	110	107.5	104.5	101.5	96	91	86		
VMS120-60-2	55	75		128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5		
VMS120-60-1	55	75		134	132	130.5	127	124	121	118	111	105	100		
VMS120-60	75	100		139	137	135	132	128.8	126	123	116	110	104		
VMS120-70-2	75	100		151	148	145.5	143	138.6	134	130	123.5	116.5	109		
VMS120-70-1	75	100		156.5	154	152	148.5	144.5	141	137.5	130	123	116.5		
VMS120-70	75	100		162.5	160.5	158.5	155	151	148	145	137	129	123		

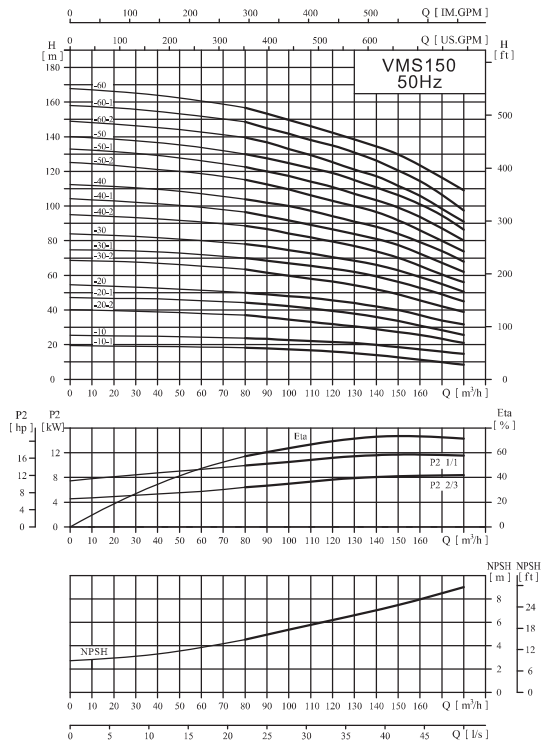
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS120-10	840	500	1340	330	255	230
VMS120-20-2	1000	500	1500	330	255	245
VMS120-20-1	1000	550	1550	330	255	250
VMS120-20	1000	575	1575	360	285	285
VMS120-30-2	1160	650	1810	400	310	360
VMS120-30-1	1160	650	1810	400	310	360
VMS120-30	1160	650	1810	400	310	360
VMS120-40-2	1320	650	1970	400	310	400
VMS120-40-1	1320	650	1970	400	310	400
VMS120-40	1320	685	2005	460	340	460
VMS120-50-2	1480	685	2165	460	340	470
VMS120-50-1	1480	685	2165	460	340	470
VMS120-50	1510	760	2270	540	370	575
VMS120-60-2	1670	760	2430	540	370	585
VMS120-60-1	1670	760	2430	540	370	585
VMS120-60	1670	845	2515	580	410	705
VMS120-70-2	1830	845	2675	580	410	715
VMS120-70-1	1830	845	2675	580	410	715
VMS120-70	1830	845	2675	580	410	715

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.

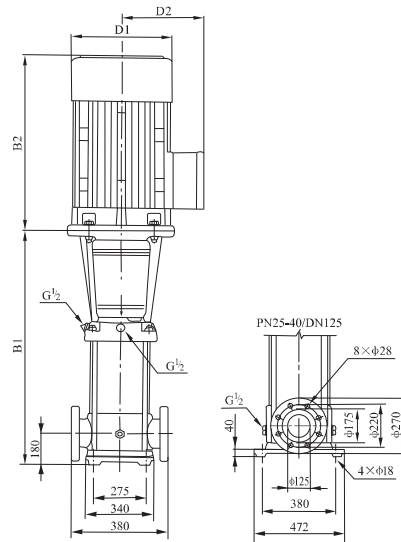
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 150

Installation sketch



Performance table

Model	Driving motor		Q (m³/h)	80	90	100	110	120	130	140	150	160	170	180
	(kw)	(hp)												
VMS150-10-1	11	15	H (m)	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5
VMS150-10	15	20		24	23	22.5	22	21.5	20.5	20	18.5	17	16	15
VMS150-20-2	18.5	25		37	35.5	34	33	32	31	29	27.5	26	23	21
VMS150-20-1	22	30		44.3	43	42	40	39	38.5	37.5	35	33	30	27
VMS150-20	30	40		50	49	48	47	45.5	44	42	40	37	34	32
VMS150-30-2	30	40		63.5	61	59	57.5	56	54.5	53	49	45.5	42	39
VMS150-30-1	37	50		70	68	67	65	63	62	60	56	53	49	45
VMS150-30	37	50		78	76.5	75	73	70.5	68	66	63	59	55	50.5
VMS150-40-2	45	60		89	87	84	81.5	79	77	74.5	70.5	65.5	60	56
VMS150-40-1	45	60		96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62
VMS150-40	55	75		104	102	100	97	95	91	88	84	79.5	74	68
VMS150-50-2	55	75		115.5	112	109	106	102.5	100	97	92	86	79	73.5
VMS150-50-1	75	100		122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80
VMS150-50	75	100		130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5
VMS150-60-2	75	100		140	137	133	130	126	121	118	112	106	98	91
VMS150-60-1	75	100	148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5	
VMS150-60	75	100	157	153	149	145	142	139.5	137	130	123.5	116	109	

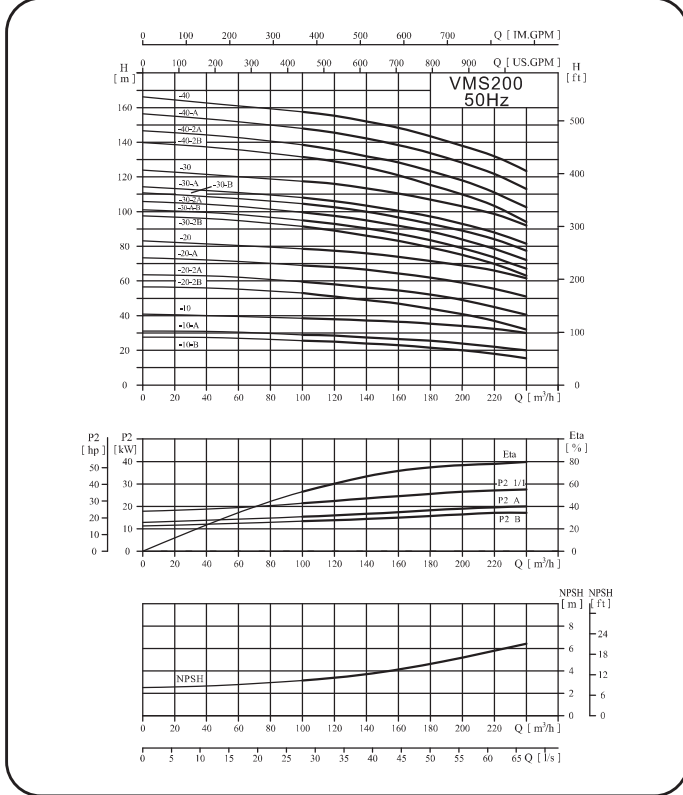
Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS150-10-1	840	500	1340	330	255	230
VMS150-10	840	500	1340	330	255	235
VMS150-20-2	1000	550	1550	330	255	250
VMS150-20-1	1000	575	1575	360	285	295
VMS150-20	1000	650	1650	400	310	350
VMS150-30-2	1160	650	1810	400	310	360
VMS150-30-1	1160	650	1810	400	310	360
VMS150-30	1160	650	1810	400	310	385
VMS150-40-2	1320	685	2005	460	340	460
VMS150-40-1	1320	685	2005	460	340	460
VMS150-40	1350	760	2110	540	370	560
VMS150-50-2	1510	760	2270	540	370	570
VMS150-50-1	1510	845	2355	580	410	690
VMS150-50	1510	845	2355	580	410	690
VMS150-60-2	1670	845	2515	580	410	700
VMS150-60-1	1670	845	2515	580	410	700
VMS150-60	1670	845	2515	580	410	700

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

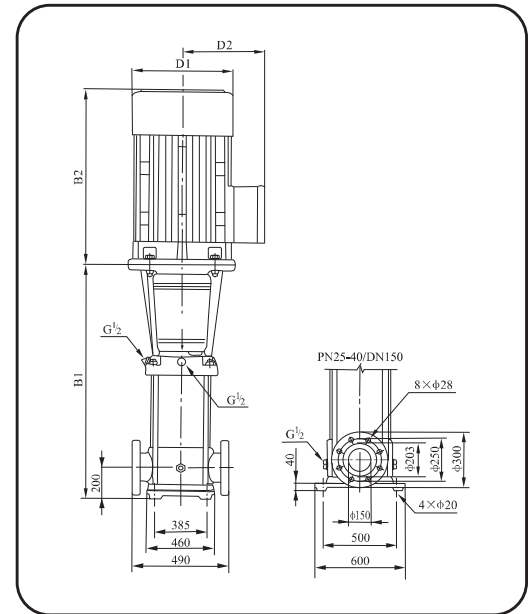
Technical Data

Performance curve ISO9906 Annex A 2900rpm



VMS 200

Installation sketch



Performance table

Model	Driving motor (kw) (hp)	Q (m³/h)	100	120	140	160	180	200	220	240
VMS200-10-B	18.5 25	H	25.5	25	24	23	21.5	20	18	15.5
VMS200-10-A	22 30		29	28.5	27.5	26.5	25.5	24	22	20
VMS200-10	30 40		38.5	38	37.5	36.5	35	34	32.5	30
VMS200-20-2B	37 50		53	51	49	47	44	41	37	32
VMS200-20-2A	45 60		59.5	58	56	54	52.5	49	44.5	40.5
VMS200-20-A	55 75		69	68	66	64	62	59	55.5	51
VMS200-20	55 75		78.5	77.5	76	74	71.5	69	66	61.5
VMS200-30-2B	75 100		91.5	89	86.5	83.5	79	75	70	63
VMS200-30-A-B	75 100		95	93	90	87	83.5	79	73.5	67
VMS200-30-2A	75 100		99.5	97.5	94.5	91.5	89	84	78.5	72
VMS200-30-B	75 100		104.5	102.5	100	97	93	89	84.5	77.5
VMS200-30-A	75 100		108	106	103.5	100.5	97.5	93	88	81.5
VMS200-30	90 120		117.5	116	113.5	110.5	107	103	99	92
VMS200-40-2B	90 120		131.5	129	125.5	121	115.5	110	103.5	94
VMS200-40-2A	110 150		138.5	136	132	128	124	118	111	102.5
VMS200-40-A	110 150		148	145.5	142.5	138	134	128	122	113
VMS200-40	110 150		157.5	155.5	152.5	148	143.5	138	132.5	123.5

Size and weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMS200-10-B	907	550	1457	330	255	311
VMS200-10-A	907	575	1482	360	285	347
VMS200-10	907	650	1557	400	310	403
VMS200-20-2B	1101	650	1751	400	310	447
VMS200-20-2A	1101	685	1786	460	340	504
VMS200-20-A	1131	760	1891	540	370	595
VMS200-20	1131	760	1891	540	370	595
VMS200-30-2B	1325	845	2170	580	410	748
VMS200-30-A-B	1325	845	2170	580	410	748
VMS200-30-2A	1325	845	2170	580	410	748
VMS200-30-B	1325	845	2170	580	410	748
VMS200-30-A	1325	845	2170	580	410	748
VMS200-30	1325	895	2220	580	410	817
VMS200-40-2B	1519	895	2414	580	410	830
VMS200-40-2A	1519	1140	2659	645	550	1180
VMS200-40-A	1519	1140	2659	645	550	1180
VMS200-40	1519	1140	2659	645	550	1180

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.



Waterpump
SEOCA