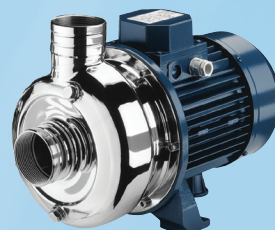
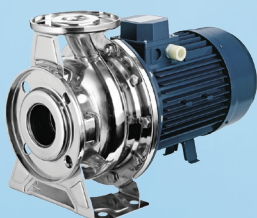




STAINLESS STEEL CENTRIFUGAL PUMPS
STAINLESS STEEL VERTICAL MULTISTAGE PUMPS

ALSO AVAILABLE





APPLICATIONS

Spray irrigation systems, hydro pneumatic sets & industrial installations

GENERAL INTRODUCTION

VMX vertical multipolar and stainless steel Centrifugal pump, manufactured by adopting advanced denimark technology. The best advantage is the advantages of advanced water-power model design, high effience and saves power. There is vane wheel inside, the pump shell and main fittings takes with stainless steel punch, flow-road is very smooth, axle is hard metal tool, so that will be super-powerful long lasting using time, to prevent producing second pollution, and its axle cover seals with wear-resisting machine, unravel. Electrical machine adopts MS lead case, import bearing, insulating grades F. Pump works smoothly, and low-noise. The quality of this product is dependable, good appearance, small bulk, light, and easy for transport and install. It is ideal water pump of green and environment protection and power saving.

MATERIAL

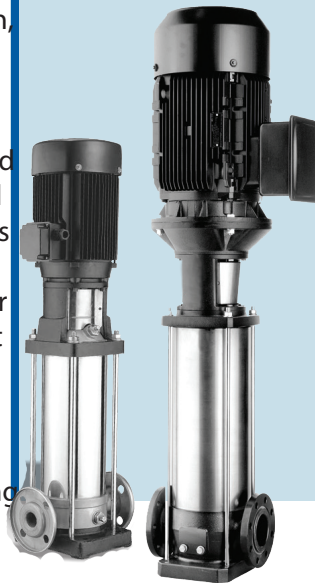
- Pump body, external casing, casing cover, impellers, diffusers, bearing sleeve, coupling guard, bolts and nuts in contact with liquid will be SS304 for VMX models.
- Pump body, external casing, casing cover, impellers, diffusers, bearing sleeve, coupling guard, bolts and nuts in contact with liquid will be SS316 for VMXL models.
- Tie rods, nuts bolts which is not in contact will be in Zinc coated steel.
- Shaft in SS316
- Bracket and base in CI

TYPICAL APPLICATION

- Urban water supply and pressure boosting
- Industrial circulating system and processing system
- Water supply for boiler or condensate system
- Environmental protection water treatment and infiltration analysis system
- Agriculture irrigation and rewatering
- Industrial building cleaning and other washing work
- (Others) many special applications

VMX

Close-coupled complete pump with special motor, Ip55 protection, F class insulation.



SCOPE OF APPLICATION

- Common type is applicable for liquid conveying, circulation and boosting of hot and cold clean water, soft water
- Stainless steel type is also used for water with tiny content of alkali, mineral, distilled water, water for swimming pool and solution with chloride, but the allowed Temperature of the liquid shall be reduced.

WORKING CONDITIONS

- Hot and cold clean, non-flammable, non-explosive liquid without solid grain and fiber
- Liquid temperature: ambient temperature $-15^{\circ}\text{C} \sim +70^{\circ}\text{C}$, hot-water $+70^{\circ}\text{C} \sim +120^{\circ}\text{C}$;
- Highest environmental temperature: $+40^{\circ}\text{C}$
- Min inlet pressure: according to NPSH curve + min safe delivery 0.5m water head

EXPLANATION TO PERFORMANCE CURVE AND TABLE

- All the performance curves are based on the measured values of motor 3X380, 50Hz under constant speed of 2900r/min. The motor is of changeable voltage;
- Measurement is done on the basis of: 20°C water in free air, dynamic viscosity $\mu=1\text{ mm}^2/\text{sec}$; tolerance refers to attachment B of ISO2584.
- The operation of pump shall refer to the scope of performance of the black curve to prevent danger due to overheating.

EQ FEATURES

Various control modes (pressure, distant pressure, temperature) Excellent energy-saving Installation at all standard three phase inducement electromotor is possible Easy to remodel original pump Including pump, motor protection function. Easy to install and operate Until 6 vehicles can be connected to each pump (tandem operation).

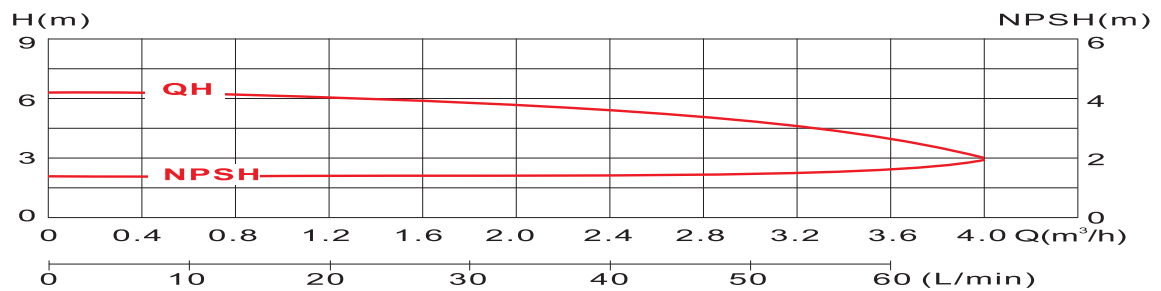
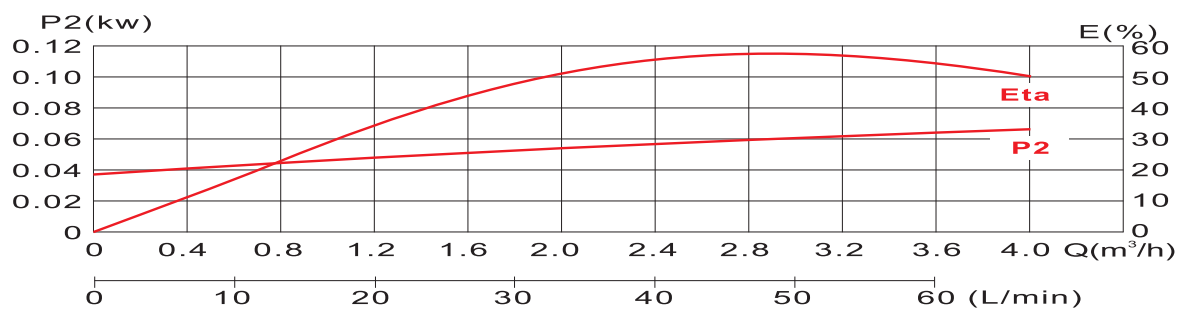
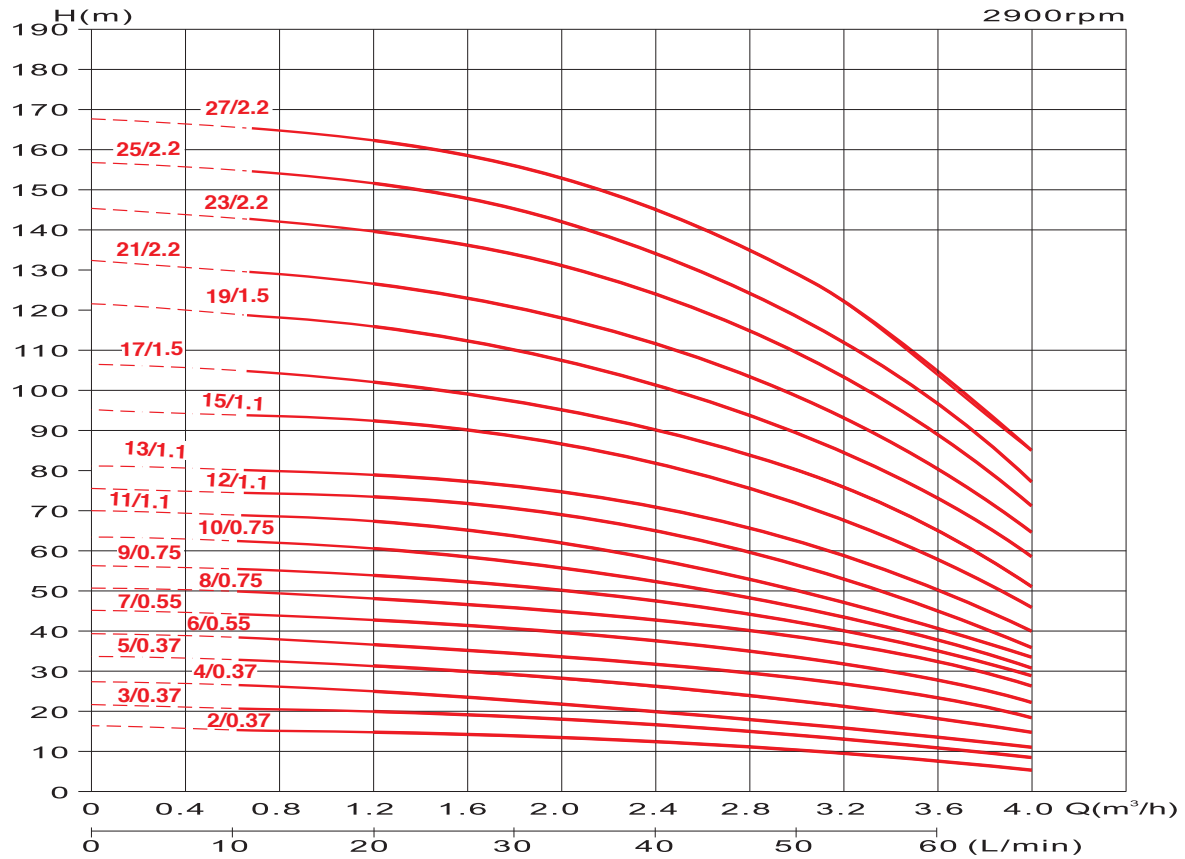
VMX SERIES :

- | | |
|----------|-----------|
| • VMX 3 | • VMX 45 |
| • VMX 5 | • VMX 90 |
| • VMX 15 | • VMX 120 |
| • VMX 20 | • VMX 150 |
| • VMX 32 | |



PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 3 SERIES

VMX3





Model	Power		Capacity 2900rpm									
Three phase 380v 50Hz	KW	HP	M³/h	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
			L/min	20	26.7	33.3	40	46.7	50	53.3	60	66.7
			Head(m)									
VMX3 - 2/0.37	0.37	0.5		12	11.5	11	10.5	10	9.5	9	7.5	6
VMX3 - 3/0.37	0.37	0.5		18	17	16.5	15.5	15	14	13	11	9
VMX3 - 4/0.37	0.37	0.5		24.5	23	22.5	21	20	18.5	17	15	12
VMX3 - 5/0.37	0.37	0.5		30	29	28	26.5	25	23	21	19	15
VMX3 - 6/0.55	0.55	0.75		37	35	34	32	30	28	26	23	18
VMX3 - 7/0.55	0.55	0.75		43	41.5	40	37	35	33	31	27	21
VMX3 - 8/0.75	0.75	1.0		49	47.5	46	42.5	40	38	36	31	25
VMX3 - 9/0.75	0.75	1.0		55	53	51.5	48	45	43	41	35	28
VMX3 - 10/0.75	0.75	1.0		61	59	56.5	53	50	47	44	38	31
VMX3 - 11/1.1	1.1	1.5		67	64.5	62	58	55	52	48	42	34
VMX3 - 12/1.1	1.1	1.5		73	70	68	63.5	60	57	53	46	37
VMX3 - 13/1.1	1.1	1.5		79	76	74	69	65	62	58	50	40
VMX3 - 15/1.1	1.1	1.5		92	88	86	80	75	71	67	58	46
VMX3 - 17/1.5	1.5	2.0		103	100	97	90	85	81	76	65	52
VMX3 - 19/1.5	1.5	2.0		116	112	108	101	95	90	85	73	58
VMX3 - 21/2.2	2.2	3.0		128	124	120	112	105	100	94	81	65
VMX3 - 23/2.2	2.2	3.0		140	135	131	122	115	110	103	89	71
VMX3 - 25/2.2	2.2	3.0		152	147	142	133	125	120	111	97	77
VMX3 - 27/2.2	2.2	3.0		165	159	154	144	135	129	120	105	84
VMX3 - 29/2.2	2.2	3.0		175	170	163	153	142	133	126	109	88
VMX3 - 31/3.0	3	4.0		187	182	175	165	153	142	135	116	94
VMX3 - 33/3.0	3	4.0		199	194	187	176	163	151	145	125	100
VMX3 - 36/3.0	3	4.0		218	212	204	192	178	168	159	137	109

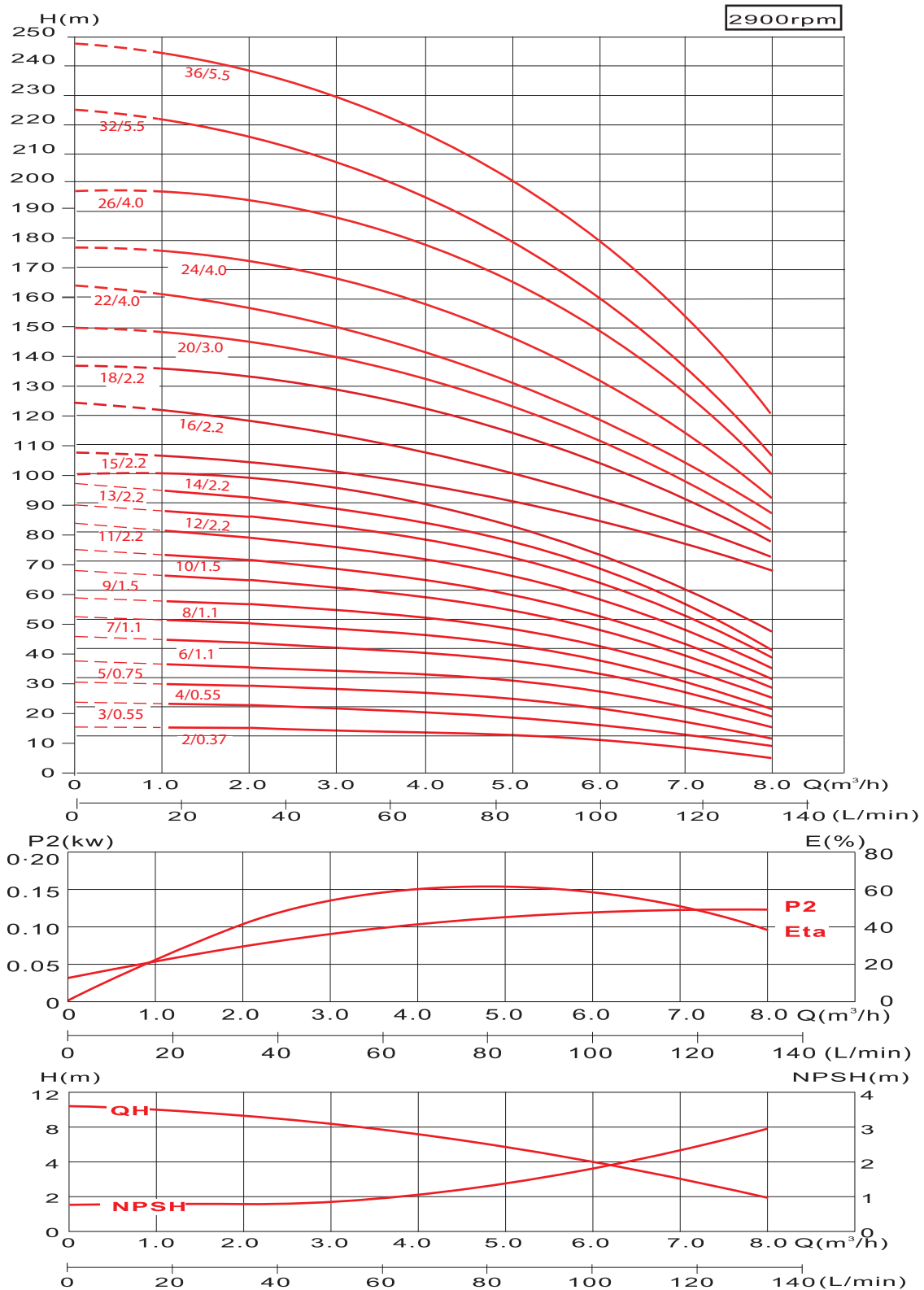
CONNECTIONS

Bayonet lock	DN32	Flange	DN25	Male threads	ZG1 $\frac{1}{4}$
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 5 SERIES

VMX 5





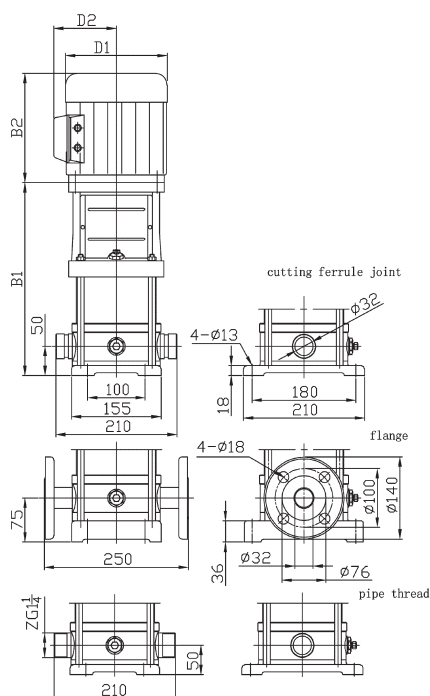
QUIT - RUNNING

VERTICAL MULTI-STAGE CENTRIFUGAL PUMP

VMX 5 PERFORMANCE DATA

Model	Power		Capacity 2900rpm							
Three phase 380v 50Hz	KW	HP	M³/h	2	3	4	5	6	7	8
			L/min	33.3	50	66.7	83.3	100	116.7	133.3
			Head(m)							
VMX5 - 2/0.37	0.37	0.55		13	12.5	11.5	10	8	6	4
VMX5 - 3/0.55	0.55	0.75		20	19	17.5	15.5	12	8.5	5.5
VMX5 - 4/0.55	0.55	0.75		26.5	25	23	20.5	16	11.5	7.5
VMX5 - 5/0.75	0.75	1.0		33	31	29	25.5	20	14.5	9.5
VMX5 - 6/1.1	1.1	1.5		40	37.5	35	31	24	17	11
VMX5 - 7/1.1	1.1	1.5		46	44	41	36	28	20	13
VMX5 - 8/1.1	1.1	1.5		53	50	47	41	32	23	15
VMX5 - 9/1.5	1.5	2.0		59.5	56	53	46	36	26	17
VMX5 - 10/1.5	1.5	2.0		66	62.5	59	51	40	29	18.5
VMX5 - 11/2.2	2.2	3.0		72.5	69	64.5	56	44	31.5	20.5
VMX5 - 12/2.2	2.2	3.0		79	75	70.5	61.5	48	34.5	22.5
VMX5 - 13/2.2	2.2	3.0		86	81	76	66.5	52	37	24.5
VMX5 - 14/2.2	2.2	3.0		92.5	87.5	82	72	56	40	26
VMX5 - 15/2.2	2.2	3.0		99	94	88	77	60	43	28
VMX5 - 16/2.2	2.2	3.0		106	100	94	82	64	46	30
VMX5 - 18/2.2	3.0	4.0		119	112.5	106	92	72	52	34
VMX5 - 20/3.0	3.0	4.0		132.5	125	117.5	102.5	80	57.5	37.5
VMX5 - 22/4.0	4.0	5.5		146	137.5	129	113	88	63.5	41.5
VMX5 - 24/4.0	4.0	5.5		159	150	141	123	96	69	45
VMX5 - 26/4.0	4.0	5.5		172	162.5	153	133	104	75	49
VMX5 - 32/5.5	5.5	7.3		199	196	188	177	161	140	115
VMX5 - 36/5.5	5.5	7.3		224	221	212	199	181	158	130

OUTLINE DIMENSIONS



Model	Dimensions(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMX5 - 2	273	235	508	140	105	23
VMX5 - 3	300	235	535	140	105	26
VMX5 - 4	327	235	562	140	105	26
VMX5 - 5	354	265	619	156.6	110	30
VMX5 - 6	381	265	646	156.6	110	33
VMX5 - 7	408	265	673	156.6	110	33
VMX5 - 8	435	265	700	156.6	110	33
VMX5 - 9	462	275	737	176.6	118	33.5
VMX5 - 10	489	275	764	176.6	118	33.5
VMX5 - 11	516	275	791	176.6	118	38
VMX5 - 12	543	275	818	176.6	118	38
VMX5 - 13	570	275	845	176.6	118	38
VMX5 - 14	597	275	872	176.6	118	38
VMX5 - 15	624	275	899	176.6	118	38
VMX5 - 16	651	275	926	176.6	118	38
VMX5 - 18	715	325	1040	196.6	135	46.5
VMX5 - 20	769	325	1094	196.6	135	46.5
VMX5 - 22	833	325	1158	196.6	135	53
VMX5 - 24	887	325	1212	196.6	135	53
VMX5 - 26	941	325	1266	196.6	135	53
VMX5 - 32	1145	391	1536	220	135	82
VMX5 - 36	1253	391	1644	220	135	84

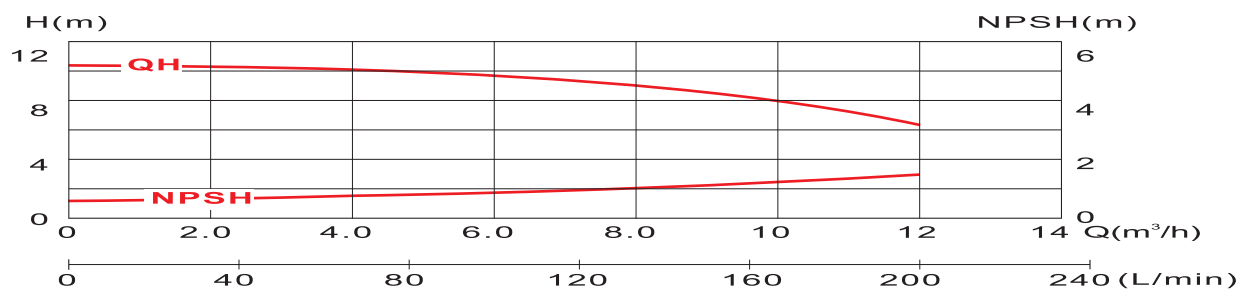
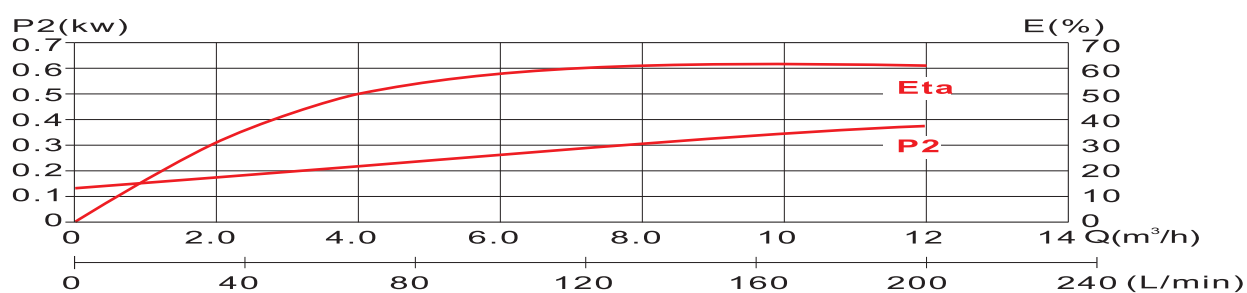
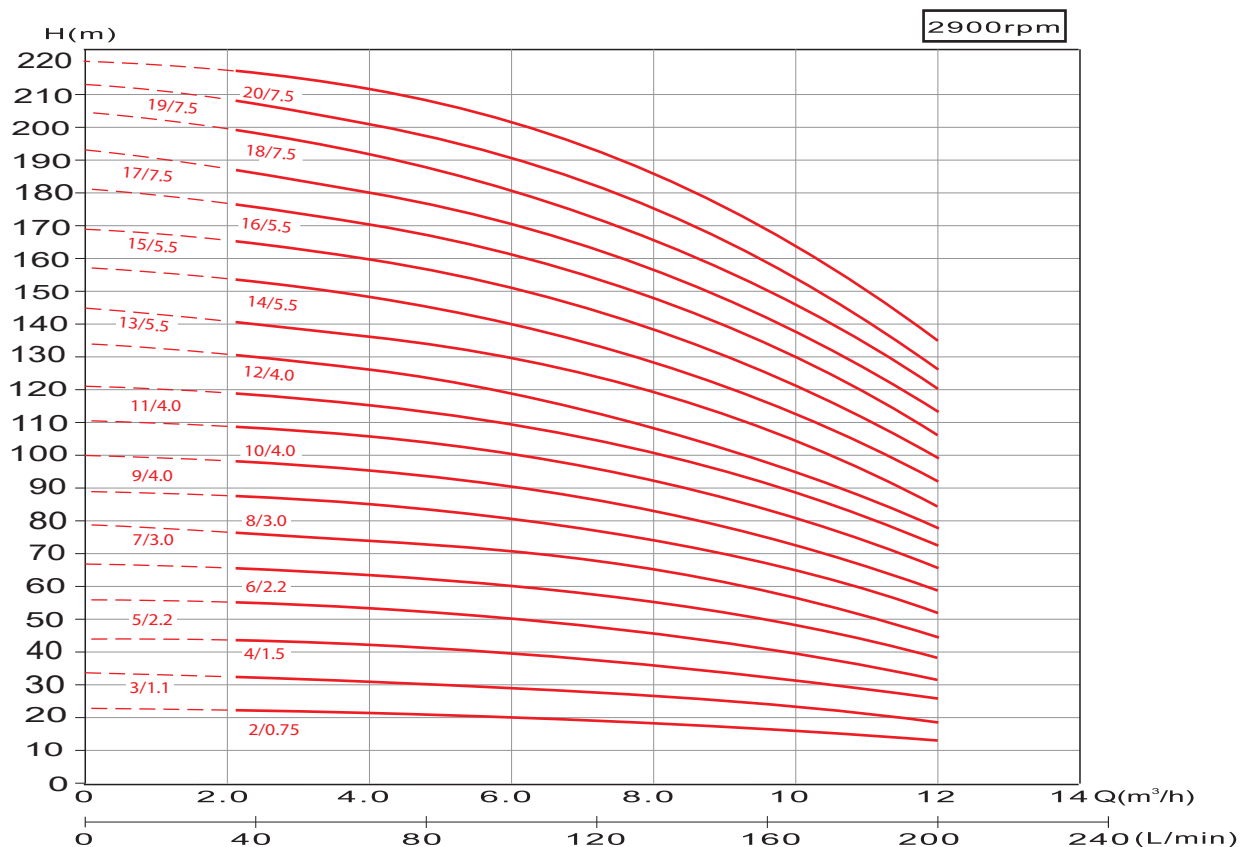
CONNECTIONS

Bayonet lock	DN32	Flange	DN32	Male threads	ZG1 1/4
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 10 SERIES

VMX 10

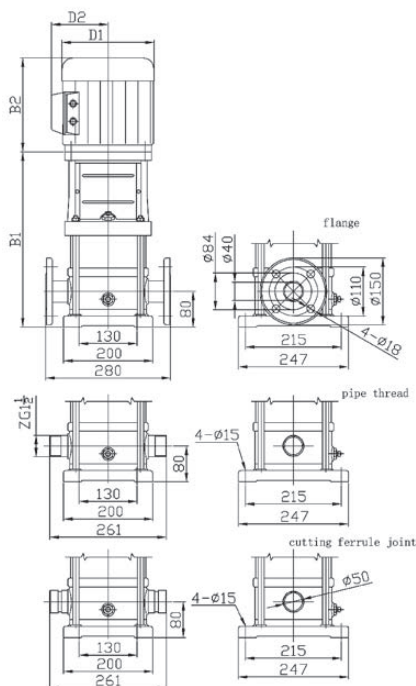




VMX 10 PERFORMANCE DATA

Model	Power		Capacity 2900rpm								
Three phase 380v 50Hz	KW	HP	M³/h	5.0	6.0	7.0	8.0	9.0	10	11	12
			L/min	83	100	117	133	150	167	183	200
			Head(m)								
VMX10 - 2/0.75	0.75	1.0		20	19.5	19	18	17	16	14	13
VMX10 - 3/1.1	1.1	1.5		30	29.5	28.5	27	25	24	21	19
VMX10 - 4/1.5	1.5	2.0		41	39.5	38	36	34	32	28	26
VMX10 - 5/2.2	2.2	3.0		52	50	48	45	42	40	36	32
VMX10 - 6/2.2	2.2	3.0		62	60	57	54	51	48	43	39
VMX10 - 7/3.0	3.0	4.0		72	70	68	65	61	57	51	46
VMX10 - 8/3.0	3.0	4.0		83	80	77	73	69	65	58	52
VMX10 - 9/4.0	4.0	5.5		93	90.5	87	84	78	73	66	59.5
VMX10 - 10/4.0	4.0	5.5		104	100	97	92	87	81	73	65
VMX10 - 11/4.0	4.0	5.5		113	110	107	102	96	89	80	73
VMX10 - 12/4.0	4.0	5.5		124	120	116	111	104	92	87	78
VMX10 - 13/5.5	5.5	7.5		134	130.5	126	121	113	105	95	86
VMX10 - 14/5.5	5.5	7.5		145	141	136	130	122	113	102	92
VMX10 - 15/5.5	5.5	7.5		154.5	150	145.5	140	131	121.5	110	99
VMX10 - 16/5.5	5.5	7.5		166	161	156	148	139	130	118	106
VMX10 - 17/7.5	7.5	10		175	170	165	158	148	138	124	112
VMX10 - 18/7.5	7.5	10		187	182	175	167	157	146	134	120
VMX10 - 19/7.5	7.5	10		196	191	184	177	165	154	139	126
VMX10 - 20/7.5	7.5	10		208	202	195	186	175	163	150	135

OUTLINE DIMENSIONS



Model	Dimensions(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D	
VMX10 - 2	376	265	641	156.6	110	35
VMX10 - 3	406	265	671	156.6	110	38.5
VMX10 - 4	436	275	711	176.6	118	46.5
VMX10 - 5	466	275	741	176.6	118	50
VMX10 - 6	496	275	771	176.6	118	50
VMX10 - 7	526	325	851	196.6	135	59
VMX10 - 8	566	325	891	196.6	135	59
VMX10 - 9	596	325	921	196.6	135	69
VMX10 - 10	626	325	951	196.6	135	69
VMX10 - 11	656	325	981	196.6	135	69
VMX10 - 12	686	325	1011	196.6	135	69
VMX10 - 13	736	379	1115	255	157	95
VMX10 - 14	766	379	1145	255	157	95
VMX10 - 15	796	379	1175	255	157	95
VMX10 - 16	826	379	1205	255	157	95
VMX10 - 17	856	417	1273	255	157	110
VMX10 - 18	886	417	1303	255	157	110
VMX10 - 19	916	417	1333	255	157	110
VMX10 - 20	946	417	1363	255	157	110

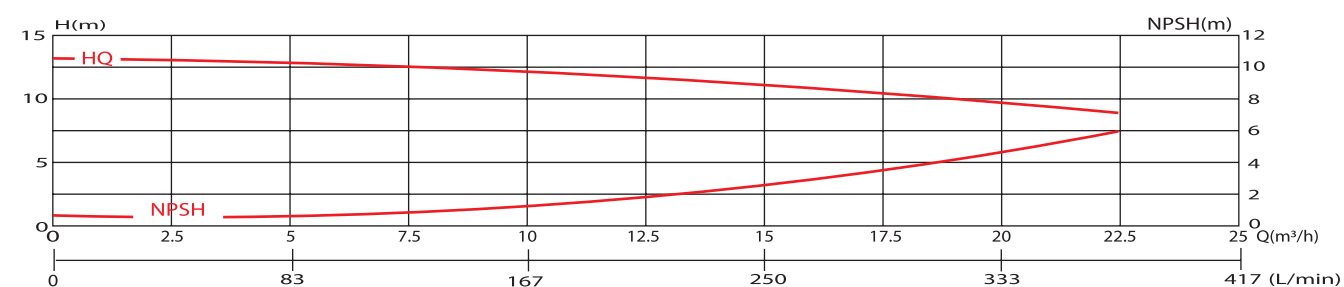
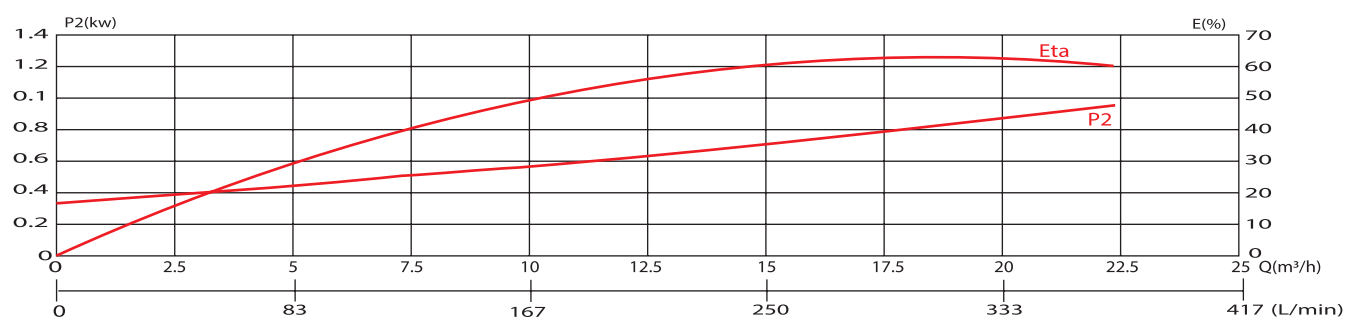
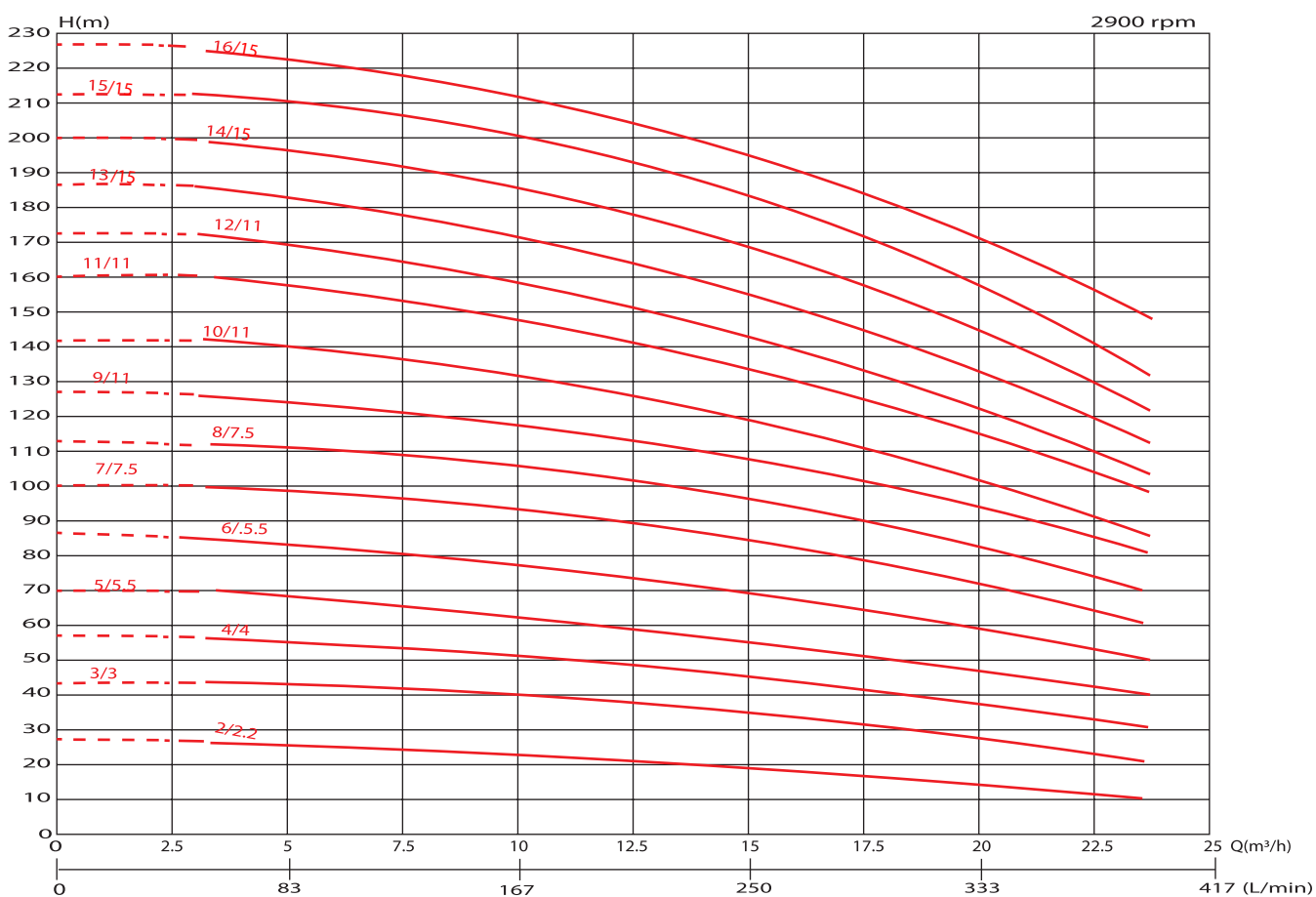
CONNECTIONS

Bayonet lock	DN50	Flange	DN40	Male threads	ZG1 1/2
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 15 SERIES

VMX 15





Model	Power		Capacity 2900rpm								
Three phase 380v 50Hz	KW	HP	M³/h	8	10	12	14	16	18	20	22
			L/min	133	167	200	233	267	300	333	367
			Head(m)								
VMX15 - 2/2.2	2.2	3.0		26	25	24	23	22	21	20	18
VMX15 - 3/3	3.0	4.0		38	37	36	35	33	31	28	25
VMX15 - 4/4	4.0	5.5		52	50	49	47	46	43	39	35
VMX15 - 5/5.5	5.5	7.5		62	61	59	57	55	50	45	40
VMX15 - 6/5.5	5.5	7.5		76	74	71	69	66	62	56	50
VMX15 - 7/7.5	7.5	10		89	87	85	82	78	74	69	60
VMX15 - 8/7.5	7.5	10		102	100	97	95	92	85	77	70
VMX15 - 9/11	11	15		114.5	112.5	109	107	104	98	91	80
VMX15 - 10/11	11	15		125	122	118	114	110	103	96	85
VMX15 - 11/11	11	15		140	138	133	131	127	120	113	98
VMX15 - 12/11	11	15		153	149	146	142	137	129	120	110
VMX15 - 13/11	15	20		165	163	157	155	150	143	133	118
VMX15 - 14/11	15	20		178	175	172	167	161	155	147	128
VMX15 - 15/11	15	20		190.5	288	181.5	178.5	172.5	165	154	137
VMX15 - 16/11	15	20		204	200	196	191	186	176	168	146

Technical drawings of the ZG2 machine, showing front, side, and top views with dimensions.

Front View (Top Left): Shows the overall height and width. Dimensions include $B2$ (total height), $B1$ (height to the base), $D2$ (top width), $D1$ (width below top), 130 , 200 , 300 (base width), and 90 (base height).

Side View (Middle Left): Shows the profile of the machine. Dimensions include $ZG2$ (height to the top), 130 , 200 , 261 (base width), and 90 (base height).

Top View (Bottom Left): Shows the base dimensions. Dimensions include 130 , 200 , 261 (base width), and 90 (base height).

Front View (Top Right): Shows the front of the machine with a flange. Dimensions include $4-\phi 15$ (four holes), $\phi 50$ (flange diameter), $\phi 12.5$ (central hole diameter), 215 , 247 (base width), and 90 (base height).

Side View (Middle Right): Shows the side of the machine with a pipe thread. Dimensions include $4-\phi 15$ (four holes), 215 , 247 (base width), and 90 (base height).

Top View (Bottom Right): Shows the base dimensions. Dimensions include $4-\phi 15$ (four holes), $\phi 50$ (flange diameter), 215 , 247 (base width), and 90 (base height).

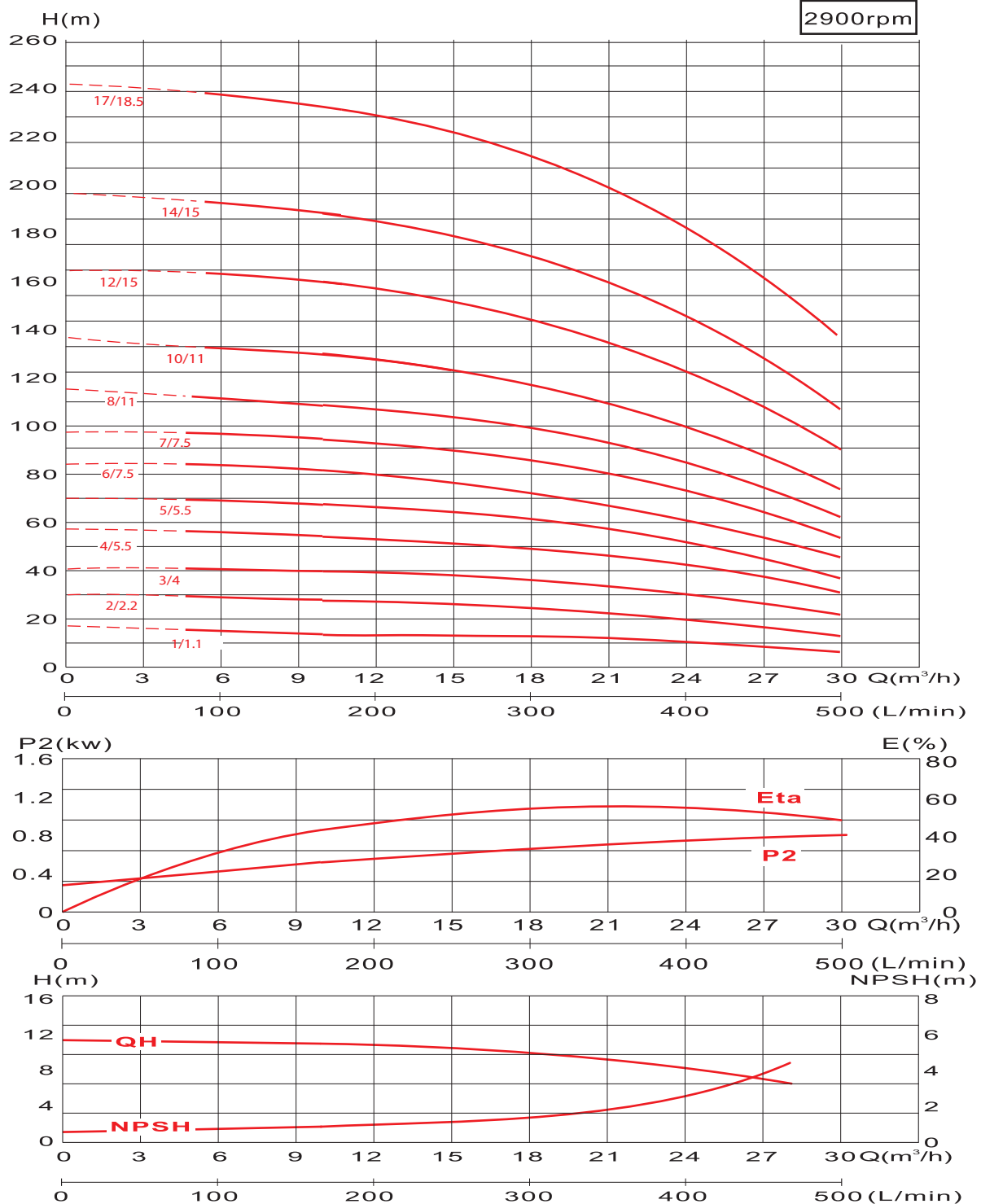
Model	Dimensions(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D	
VMX15 - 2	408	278	686	177	127	42
VMX15 - 3	484	337	821	197	127	56
VMX15 - 4	529	337	866	197	127	58
VMX15 - 5	577	380	957	258	173	87
VMX15 - 6	622	380	1002	258	173	89
VMX15 - 7	667	380	1047	258	173	96
VMX15 - 8	712	380	1092	258	173	102
VMX15 - 9	785	485	1270	320	320	134
VMX15 - 10	830	485	1315	320	320	136
VMX15 - 11	875	485	1360	320	320	138
VMX15 - 12	920	485	1405	320	320	140
VMX15 - 13	965	485	1450	320	320	184
VMX15 - 14	1010	485	1495	320	320	186
VMX15 - 15	1055	485	1540	320	320	188
VMX15 - 16	1100	485	1585	320	320	190

Bayonet lock	DN50	Flange	DN50	Male threads	ZG2
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 20 SERIES

VMX 20





Model	Power		Capacity 2900rpm										
Three phase 380v 50Hz	KW	HP	M³/h	10	12	14	16	18	20	22	24	26	28
			L/min	167	200	233	267	300	333	367	400	433	467
			Head(m)										
VMX20 - 1/1.1	1.1	1.5		13.5	13	12.5	12	11	10	9	8	7	6
VMX20 - 2/2.2	2.2	3		27	26.5	26	25	24	23	22	20	18	15
VMX20 - 3/4	4.0	5.5		40	39.5	39	38	37	35	33	30	27	24
VMX20 - 4/5.5	5.5	7.5		54	53	52	51	49	47	44	41	37	33
VMX20 - 5/5.5	5.5	7.5		67	66	64	62	60	58	55	50	45	40
VMX20 - 6/7.5	7.5	10		81	79	77	75	73	70	66	61	55	49
VMX20 - 7/7.5	7.5	10		95	93	91	89	86	82	77	71	65	58
VMX20 - 8/11	11	15		109	107	105	102	99	94	89	82	75	67
VMX20 - 10/11	11	15		136	134	131	128	124	118	111	103	95	85
VMX20 - 12/15	15	20		164	162	158	154	149	142	133	124	114	102
VMX20 - 14/15	15	20		192	189	185	180	174	166	156	145	133	119
VMX20 - 17/18.5	18.5	25		234	230	225	219	212	202	190	177	162	145

[illegible]

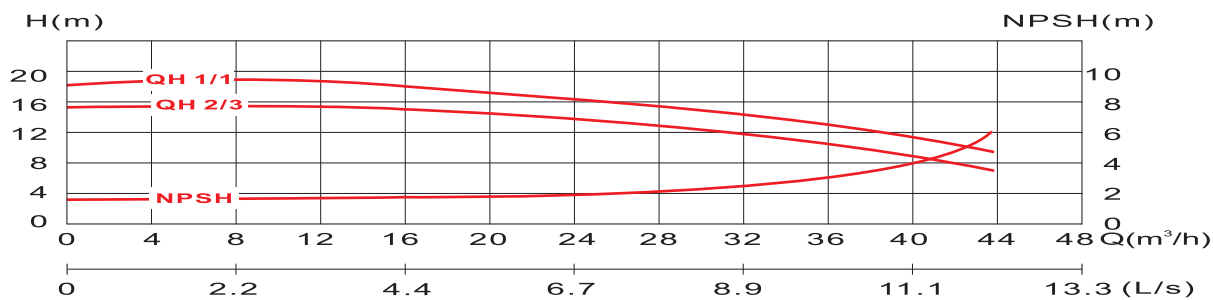
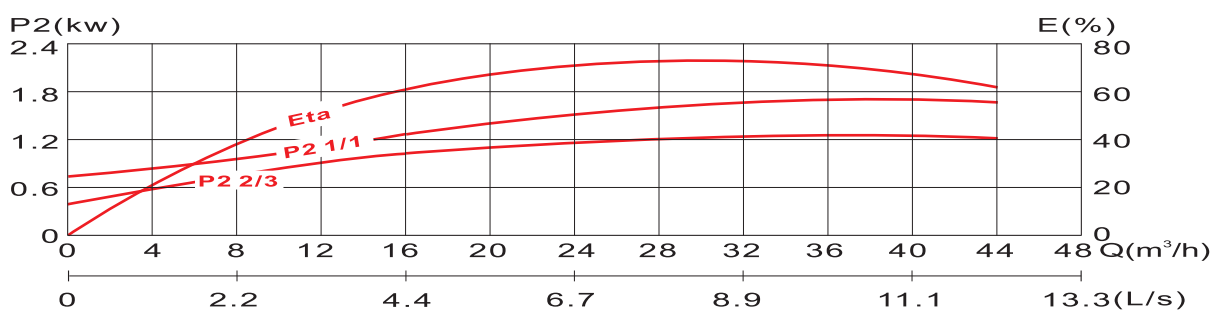
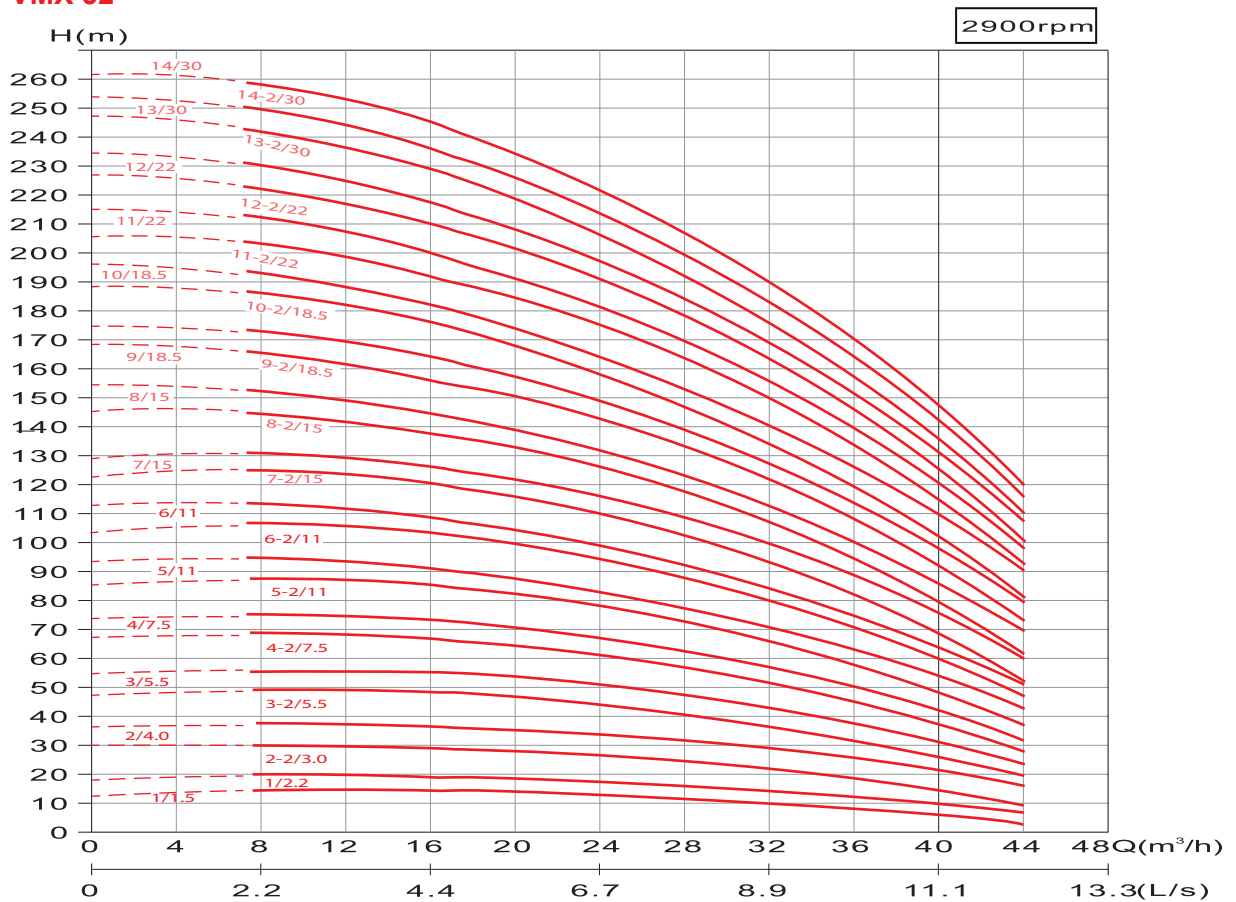
Model	Dimensions(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D	
VMX20 - 1	370	303	673	175	145	35
VMX20 - 2	418	355	773	195	160	42
VMX20 - 3	472	408	880	240	190	62
VMX20 - 4	536	475	1011	275	210	74
VMX20 - 5	580	475	1055	275	210	74
VMX20 - 6	624	475	1099	275	210	106
VMX20 - 7	668	475	1143	275	210	106
VMX20 - 8	742	600	1342	325	255	117
VMX20 - 10	830	600	1430	325	255	117
VMX20 - 12	918	600	1518	325	255	182
VMX20 - 14	1006	600	1606	325	255	182
VMX20 - 17	1138	645	1783	325	255	205

Bayonet lock	DN50	Flange	DN50	Male threads	ZG2
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 32 SERIES

VMX 32

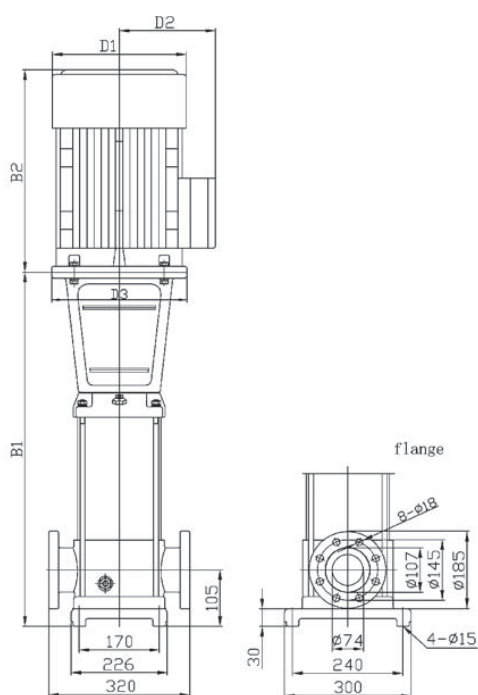




VMX 32 PERFORMANCE DATA

Model	Power		Capacity M ³ /h	16	20	24	28	32	36	40
	Three phase(380v 50Hz)	KW	HP							
VMX32 - 1/1.5		1.5	2.0	15	14.5	13.5	12.5	11	9	7
VMX32 - 1/2.2		2.2	3.0	18	17	16	15	14	12	9.5
VMX32 - 2-2/3.0		3.0	4.0	30	29	27	25	22	18	14
VMX32 - 2/4.0		4.0	5.5	36	34	32	30	28	24	18
VMX32 - 3-2/5.5		5.5	7.5	48	46	43	40	36	30	24
VMX32 - 3/5.5		5.5	7.5	54	51	48	45	42	36	27
VMX32 - 4-2/7.5		7.5	10	66	64	59	55	50	42	32
VMX32 - 4/7.5		7.5	10	72	68	64	60	56	48	36
VMX32 - 5-2/11		11	15	84	80	75	70	64	54	41
VMX32 - 5/11		11	15	90	85	80	75	70	60	45
VMX32 - 6-2/11		11	15	102	97	91	85	78	66	50
VMX32 - 6/11		11	15	108	102	96	90	84	72	54
VMX32 - 7-2/15		15	20	120	114	107	100	92	78	59
VMX32 - 7/15		15	20	126	119	112	105	98	84	63
VMX32 - 8-2/15		15	20	138	131	123	112	106	90	68
VMX32 - 8/15		15	20	144	136	128	120	112	96	72
VMX32 - 9-2/18.5		18.5	25	156	148	139	130	120	102	77
VMX32 - 9/18.5		18.5	25	162	153	144	135	126	108	81
VMX32 - 10-2/18.5		18.5	25	174	165	155	145	134	114	86
VMX32 - 10/18.5		18.5	25	180	170	160	150	140	120	90
VMX32 - 11-2/22		22	30	192	182	171	160	148	126	95
VMX32 - 11/22		22	30	198	187	176	165	154	132	99
VMX32 - 12-2/22		22	30	210	199	187	175	162	138	104
VMX32 - 12/22		22	30	216	204	192	180	168	144	108
VMX32 - 13-2/30		30	40	228	216	203	190	176	150	113
VMX32 - 13/30		30	40	234	221	208	195	182	156	117
VMX32 - 14-2/30		30	40	246	233	219	205	190	162	122
VMX32 - 14/30		30	40	252	238	224	210	196	168	126

OUTLINE DIMENSIONS



Model	Dimensions(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D	
VMX32 - 1-1	505	275	780	176.6	118	67.5
VMX32 - 1	505	290	795	190	155	71
VMX32 - 2-2	544	337	881	197	127	85
VMX32 - 2	575	335	910	230	188	85
VMX32 - 3-2	645	430	1075	260	208	93
VMX32 - 3	645	430	1075	260	208	93
VMX32 - 4-2	715	430	1145	260	208	102
VMX32 - 4	715	430	1145	260	208	102
VMX32 - 5-2	895	490	1385	330	255	172
VMX32 - 5	895	490	1385	330	255	172
VMX32 - 6-2	965	490	1455	330	255	176
VMX32 - 6	965	490	1455	330	255	176
VMX32 - 7-2	1035	490	1525	330	255	188
VMX32 - 7	1035	490	1525	330	255	188
VMX32 - 8-2	1105	490	1595	330	255	192
VMX32 - 8	1105	490	1595	330	255	192
VMX32 - 9-2	1175	550	1725	330	255	218
VMX32 - 9	1175	550	1725	330	255	218
VMX32 - 10-2	1245	550	1795	330	255	222
VMX32 - 10	1245	550	1795	330	255	222
VMX32 - 11-2	1315	590	1905	360	285	259
VMX32 - 11	1315	590	1905	360	285	259
VMX32 - 12-2	1385	590	1975	360	285	263
VMX32 - 12	1385	590	1975	360	285	263
VMX32 - 13-2	1455	660	2115	400	310	327
VMX32 - 13	1455	660	2115	400	310	327
VMX32 - 14-2	1525	660	2185	400	310	331
VMX32 - 14	1525	660	2185	400	310	331

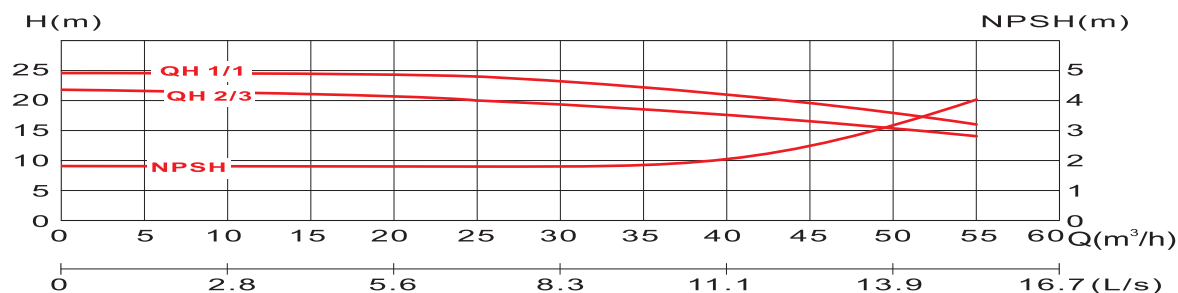
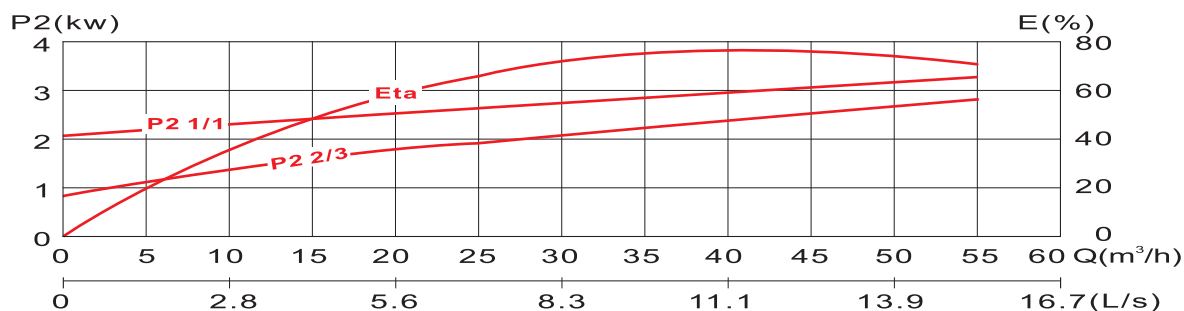
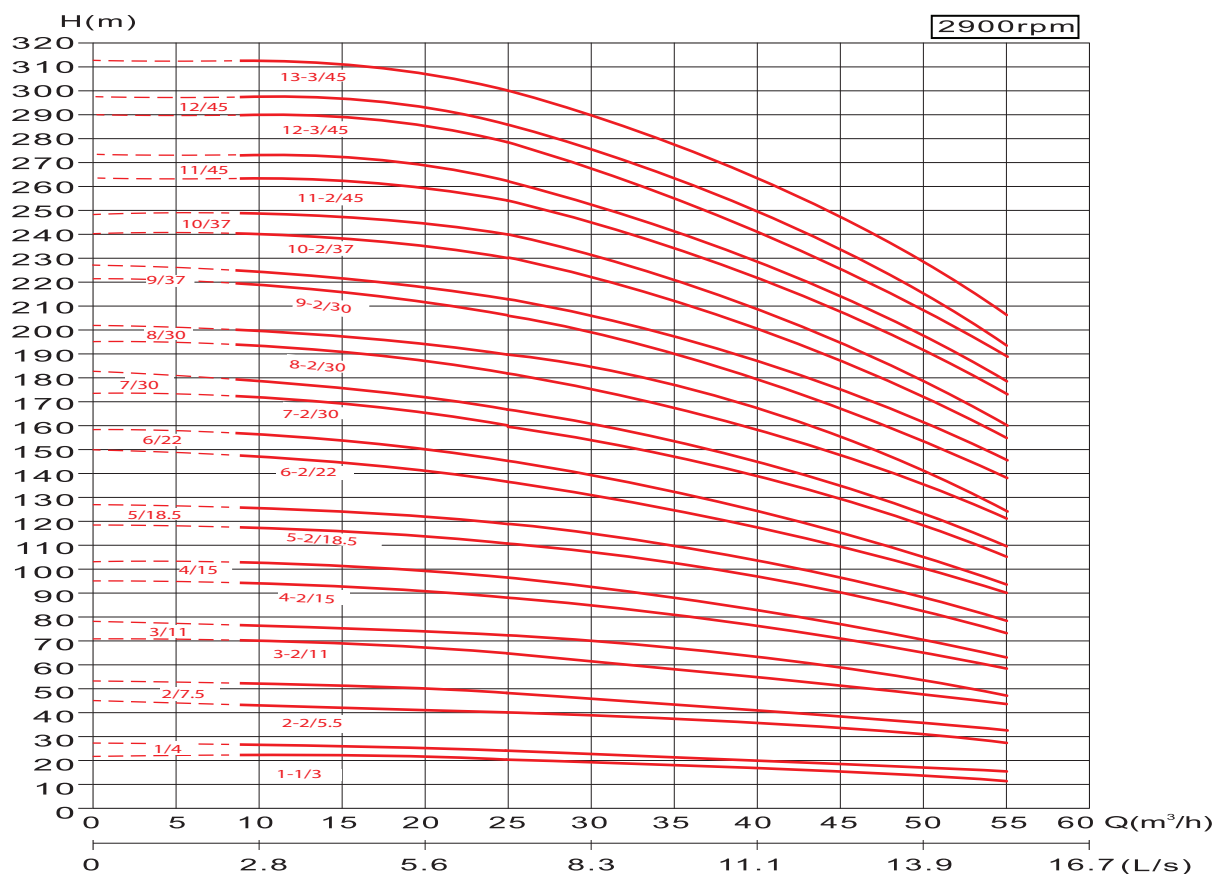
CONNECTIONS

Movable Flange	DN65
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 45 SERIES

VMX 45

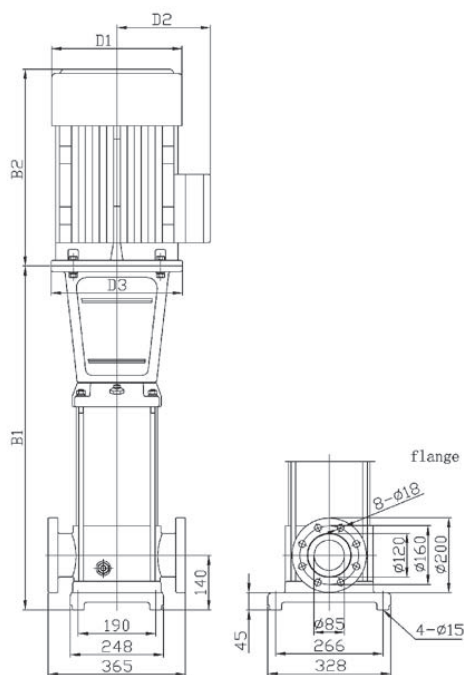




VMX 45 PERFORMANCE DATA

Model Three phase(380v 50Hz)	Power		Capacity M ³ /h	16 25	20 30	24 35	40	45	50	55
	KW	HP								
VMX45 - 1-1/3	3.0	4.0	Head (m)	20	19.5	18	17	16.5	16	14
VMX45 - 1/4	4.0	5.5		24	23	22	21	19	17.5	16
VMX45 - 2-2/5.5	5.5	7.5		40	38.5	36	34	33	31.5	27
VMX45 - 2/7.5	7.5	10		48	46	44	42	39	34	31
VMX45 - 3-2/11	11	15		64	61.5	58	55	52.5	49	43
VMX45 - 3/11	11	15		71	69	66	63	59	53	47
VMX45 - 4-2/15	15	20		88	84.5	80	76	71	65	58
VMX45 - 4/15	15	20		95	92	88	84	77	71	63
VMX45 - 5-2/18.5	18.5	25		111	107.5	102	96.5	90	84	74
VMX45 - 5/18.5	18.5	25		119	115	110	105	97	88	79
VMX45 - 6-2/22	22	30		134	130	124	118	110	102	90
VMX45 - 6/22	22	30		143	138	132	125	115	106	94.5
VMX45 - 7-2/30	30	40		159	153	146	139	130	119	106
VMX45 - 7/30	30	40		168	161	154	146	134	123	111
VMX45 - 8-2/30	30	40		183	176	168	159	148	137.5	122
VMX45 - 8/30	30	40		191	184	176	167	153	140	126
VMX45 - 9-2/30	30	40		208	199	190	180	167	154.5	138
VMX45 - 9/37	37	50		216	206	197.5	189	171	158	145
VMX45 - 10-2/37	37	50		231	222	212	201	186	172	154
VMX45 - 10/37	37	50		240	231	221	210	189	176	160
VMX45 - 11-2/45	45	60		256	244.5	234	224	205	189.5	172
VMX45 - 11/45	45	60		265	263	243	231	209	192	176
VMX45 - 12-2/45	45	60		280	268.5	256	244	223	207	187
VMX45 - 12/45	45	60		288	276	264	252	228	210	192
VMX45 - 13-2/45	45	60		305	291.5	279	256	242	224	203

OUTLINE DIMENSIONS



Model	Dimensions(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D	
VMX45 - 1-1	527	337	864	197	127	82
VMX45 - 1	558	337	893	230	188	92
VMX45 - 2-2	638	430	1060	260	208	103
VMX45 - 2	638	430	1068	260	208	107
VMX45 - 3-2	826	490	1316	330	255	175
VMX45 - 3	826	490	1316	330	255	175
VMX45 - 4-2	906	490	1396	330	255	187
VMX45 - 4	906	490	1396	330	255	187
VMX45 - 5-2	986	550	1536	330	255	208
VMX45 - 5	986	550	1536	330	255	208
VMX45 - 6-2	1066	590	1656	360	285	251
VMX45 - 6	1066	590	1656	360	285	251
VMX45 - 7-2	1146	660	1806	400	310	315
VMX45 - 7	1146	660	1806	400	310	315
VMX45 - 8-2	1226	660	1886	400	310	319
VMX45 - 8	1226	660	1886	400	310	319
VMX45 - 9-2	1306	660	1966	400	310	323
VMX45 - 9	1306	775	1966	420	315	351
VMX45 - 10-2	1386	775	2161	420	315	355
VMX45 - 10	1386	775	2161	420	315	355
VMX45 - 11-2	1466	820	2286	450	345	424
VMX45 - 11	1466	820	2286	450	345	424
VMX45 - 12-2	1546	820	2366	450	345	428
VMX45 - 12	1546	820	2366	450	345	428
VMX45 - 13-2	1626	820	2446	450	345	432

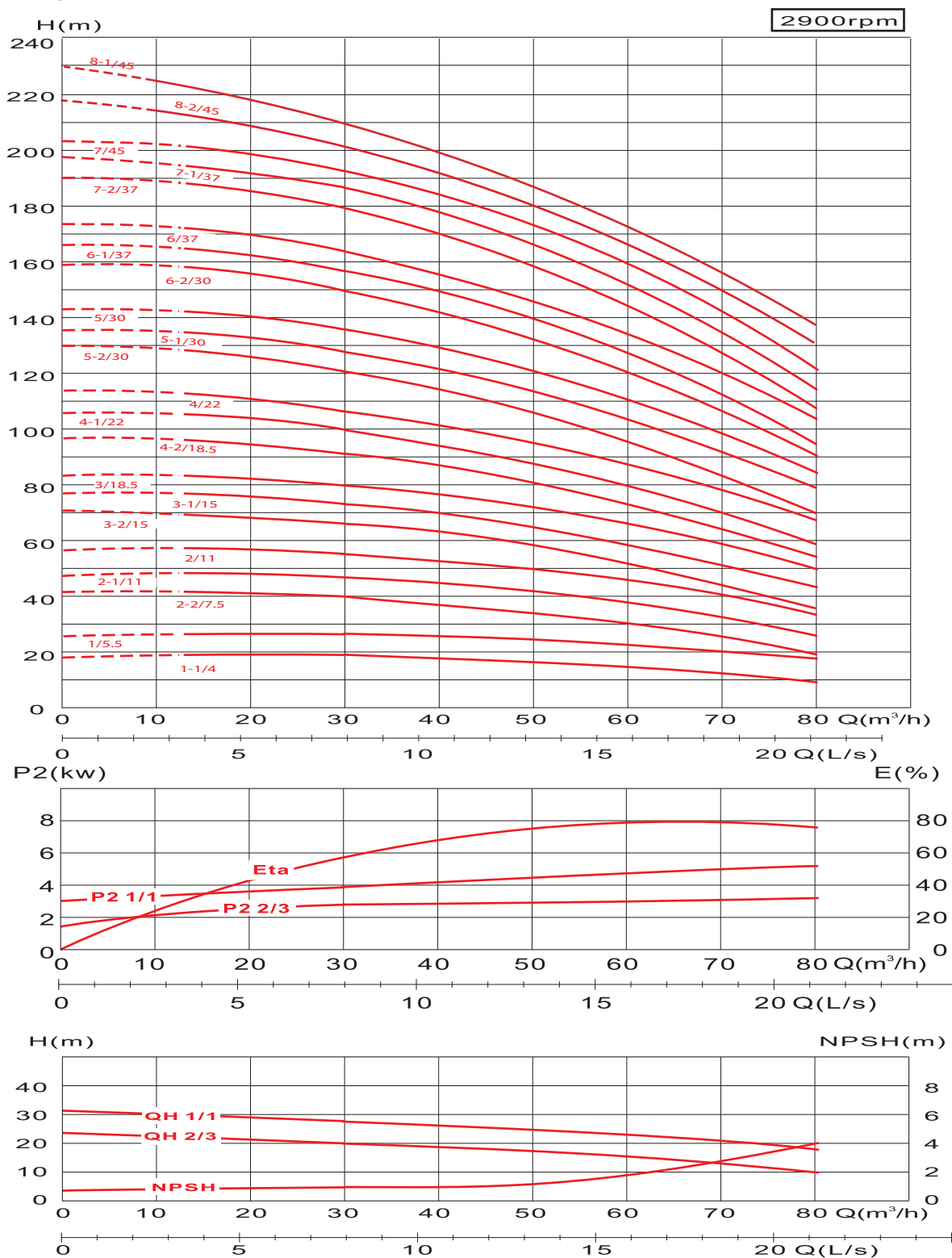
CONNECTIONS

Movable Flange	DN80
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 64 SERIES

VMX 64

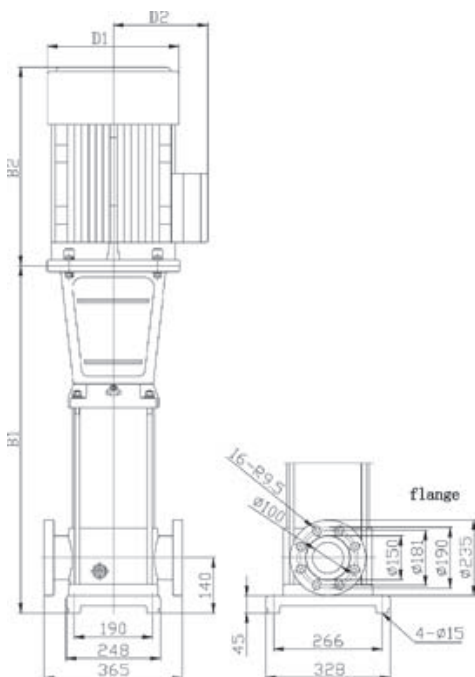




VMX 64 PERFORMANCE DATA

Model	Power		Capacity M ³ /h	30	40	50	60	70	80
	Three phase(380v 50Hz)	KW	HP						
VMX64 - 1-1/4		4.0	5.5	20	19	17	15	13	9
VMX64 - 1/5.5		5.5	7.5	27.5	26	24.5	23	21	18
VMX64 - 2-2/7.5		7.5	10	40	38	34	30	26	17
VMX64 - 2-1/11		11	15	47.5	45	41.5	38	34	27
VMX64 - 2/11		11	15	55	52	49	46	42	36
VMX64 - 3-2/15		15	20	67.5	64	59	53	47	38
VMX64 - 3-1/15		15	20	75	71	67	62	55	46
VMX64 - 3/18.5		18.5	25	83	78	74	69	63	54
VMX64 - 4-2/18.5		18.5	25	95	90	85	78	68	58
VMX64 - 4-1/22		22	30	103	98	91	84	77	64
VMX64 - 4/22		22	30	110	104	100	94	86	74
VMX64 - 5-2/30		30	40	123	118	109	101	89	76
VMX64 - 5-1/30		30	40	132	125	117	110	99	85
VMX64 - 5/30		30	40	139	132	124	117	106	91
VMX64 - 6-2/30		30	40	150	143	136	124	113	96
VMX64 - 6-1/37		37	50	159	151	142	133	121	102
VMX64 - 6/37		37	50	167	158	150	142	127	110
VMX64 - 7-2/37		37	50	180	172	162	150	138	117
VMX64 - 7-1/37		37	50	187	180	167	157	142	124
VMX64 - 7/45		45	60	200	188	179	168	151	132
		45	60	207	196	182	164	154	154
		45	60	215	203	189	171	161	123

OUTLINE DIMENSIONS



Model	Dimensions(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D	
VMX64 - 1-1	569	408	977	240	190	90
VMX64 - 1	569	475	1044	275	210	110
VMX64 - 2-2	650	475	1125	275	210	130
VMX64 - 2-1	760	600	1360	325	255	190
VMX64 - 2	760	600	1360	325	255	190
VMX64 - 3-2	862	600	1462	325	255	200
VMX64 - 3-1	862	600	1462	325	255	200
VMX64 - 3	862	645	1507	325	255	205
VMX64 - 4-2	925	645	1507	360	255	210
VMX64 - 4-1	925	670	1595	360	285	255
VMX64 - 4	925	670	1595	420	285	255
VMX64 - 5-2	1008	775	1783	420	315	315
VMX64 - 5-1	1008	775	1783	420	315	315
VMX64 - 5	1008	775	1783	420	315	315
VMX64 - 6-2	1090	775	1865	420	315	320
VMX64 - 6-1	1090	775	1865	420	315	340
VMX64 - 6	1090	775	1865	420	315	340
VMX64 - 7-2	1172	775	1947	420	315	345
VMX64 - 7-1	1172	775	1947	420	315	345
VMX64 - 7	1172	815	1987	450	345	410
VMX 64 - 8-2	1248	700	1948	460	340	440
VMX 64 - 8-1	1248	700	1948	460	340	440

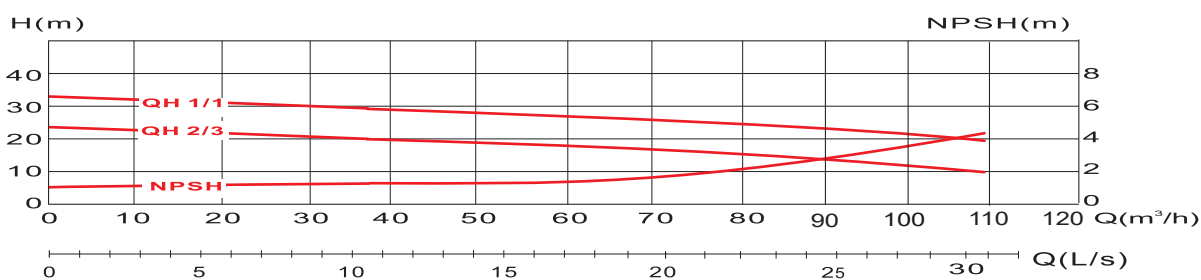
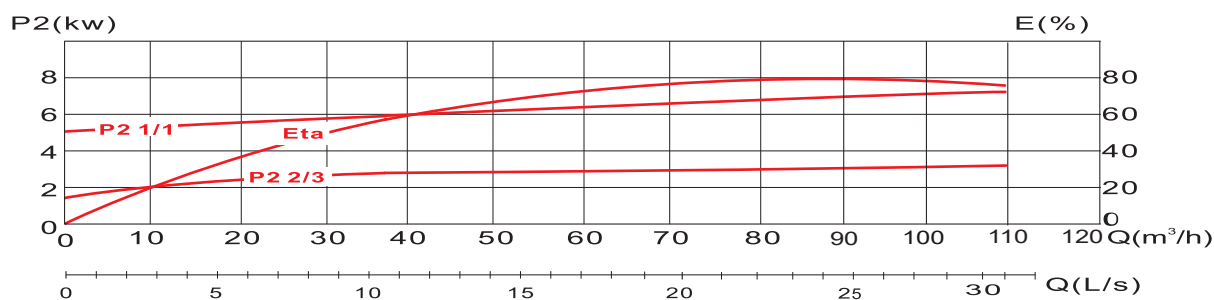
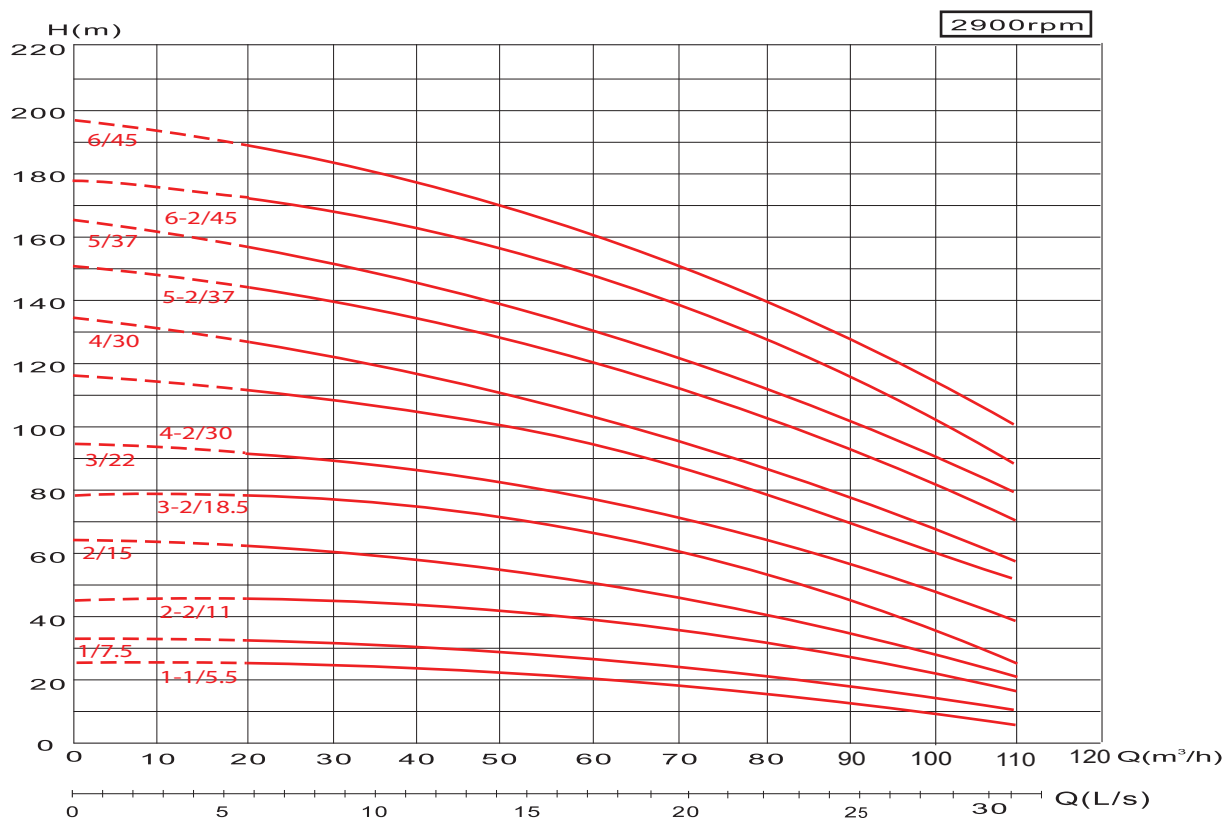
CONNECTIONS

Movable Flange	DN100
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 90 SERIES

VMX 90

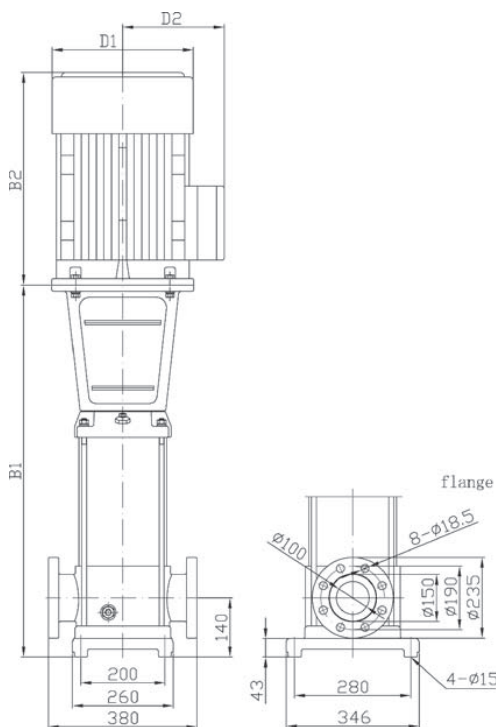




VMP90 PERFORMANCE DATA

Model	Power		Capacity M ³ /h	50	60	70	80	90	100	110	120
	Three phase(380v 50Hz)	KW	HP								
VMX90 - 1-1/5.5	5.5	7.5	Head (m)	20.5	19	17	15.5	14	10	8	
VMX90 - 1/7.5	7.5	10		28	26.5	25	23.5	21	19	16.5	14.5
VMX90 - 2-2/11	11	15		41	38	34	31	28	20	17.5	11.5
VMX90 - 2/15	15	20		56	53	50	47	42	38	34	28
VMX90 - 3-2/18.5	18.5	25		69	65	59	54.5	48.5	40	35	26.5
VMX90 - 3/22	22	30		84	79.5	75	70.5	63	57	51	43.5
VMX90 - 4-2/30	30	40		97	91	84	78	70	58	51.5	41
VMX90 - 4/30	30	40		112	106	101	94	84	78	68	58
VMX90 - 5-2/37	37	50		125	117.5	109	101.5	91	77	68.5	56
VMX90 - 5/37	37	50		141	134	127	118	107	97	84	72
VMX90 - 6-2/45	45	60		153	144	135	125	112	100	85.5	69
VMX90 - 6/45	45	60		171	163	152	144	130	119	106	87

OUTLINE DIMENSIONS



Model	Dimensions(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMX90 - 1-1	573	475	1048	275	210	105
VMX90 - 1	573	475	1048	275	210	120
VMX90 - 2-2	775	600	1375	325	255	120
VMX90 - 2	775	600	1375	325	255	205
VMX90 - 3-2	867	645	1512	325	255	210
VMX90 - 3	867	670	1512	360	285	255
VMX90 - 4-2	959	775	1734	420	315	320
VMX90 - 4	959	775	1734	420	315	320
VMX90 - 5-2	1051	775	1826	420	315	340
VMX90 - 5	1051	775	1826	420	315	340
VMX90 - 6-2	1143	815	1958	450	345	410
VMX90 - 6	1143	815	1958	450	345	410

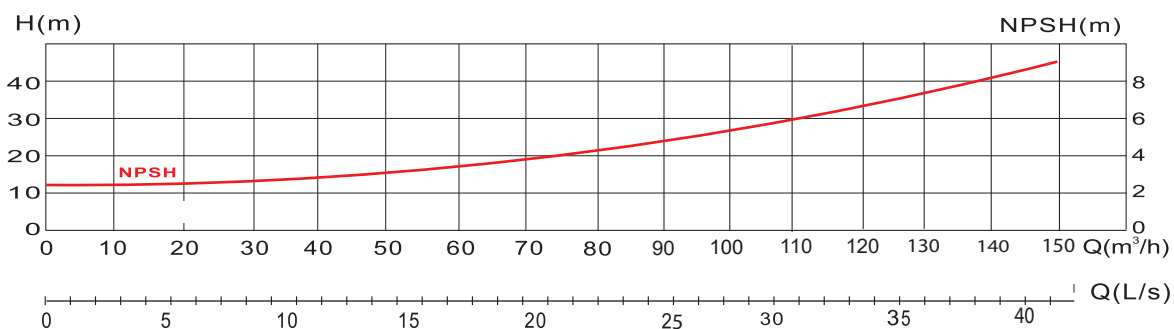
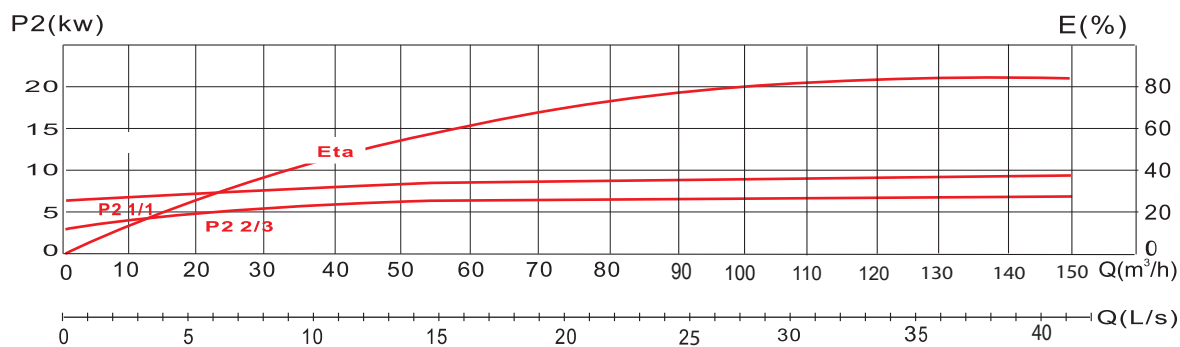
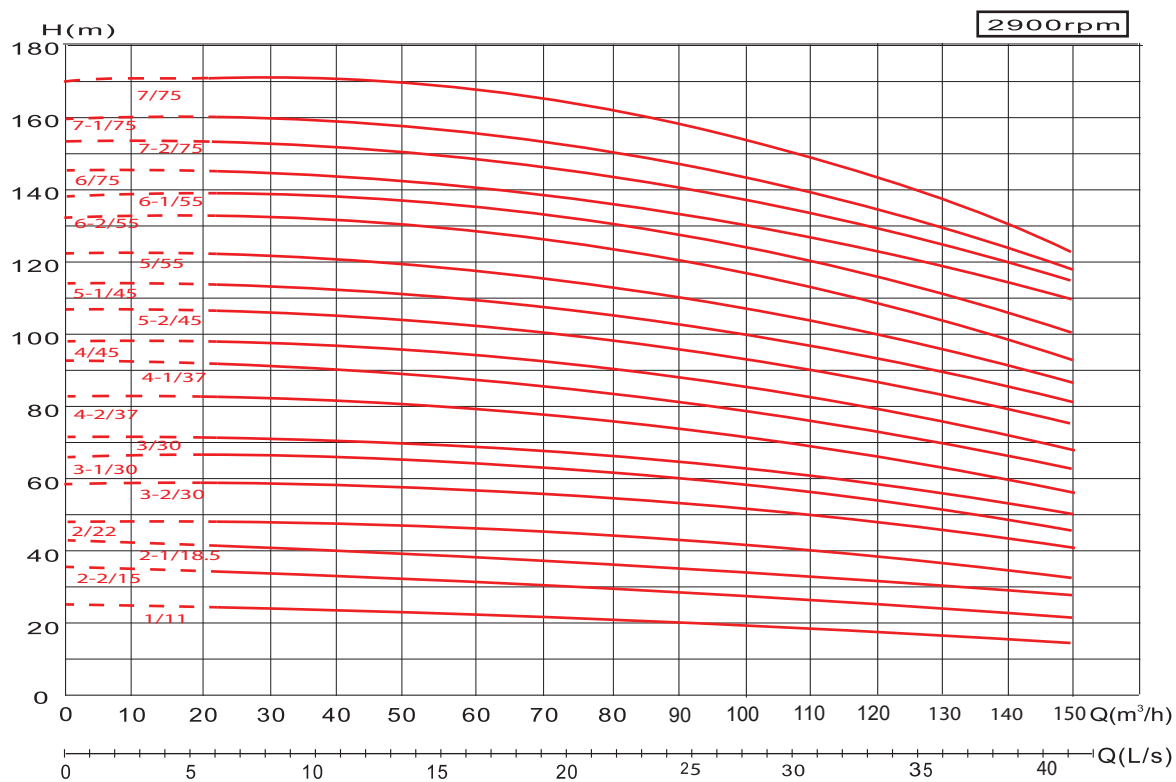
CONNECTIONS

Movable Flange	DN100
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PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 120 SERIES

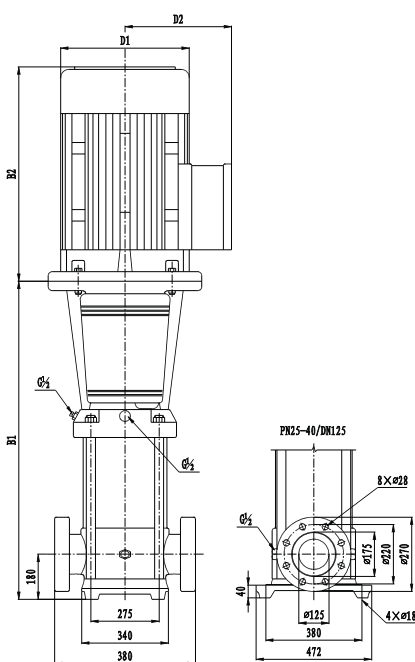
VMX 120



Performance table

Model	Motor(kw)	Q (m ³ /h)	60	70	80	90	100	110	120	130	140	150
VMX120-1	11	H (m)	22	21.8	21.6	21	20.5	19.5	18.5	17	16	15
VMX120-2-2	15		34	33.6	33	31	30.2	30	28.5	27	25	24
VMX120-2-1	18.5		41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5
VMX120-2	22		46	45	44.5	43.5	42.4	41	40	38	36	33.5
VMX120-3-2	30		57	56	55	53.5	52	51	49	46.5	43.5	41
VMX120-3-1	30		64	63	62	60	58.5	57.5	55.5	52	49	46
VMX120-3	30		69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51
VMX120-4-2	37		80.5	79	78	76	73.5	72	69	66	61.5	58
VMX120-4-1	37		87	86	84.5	82	80	78	76	72	68	64.5
VMX120-4	45		92.5	91	90	88	85.5	83	81	77	73	68.5
VMX120-5-2	45		104.5	103	101	99	96	93	90	85.5	80.5	75.5
VMX120-5-1	45		110.5	109	107.5	105	102	100	97	92	86.5	83
VMX120-5	55		115.5	114	113	110	107.5	104.5	101.5	96	91	86
VMX120-6-2	55		128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5
VMX120-6-1	55		134	132	130.5	127	124	121	118	111	105	100
VMX120-6	75		139	137	135	132	128.8	126	123	116	110	104
VMX120-7-2	75		151	148	145.5	143	138.6	134	130	123.5	116.5	109
VMX120-7-1	75		156.5	154	152	148.5	144.5	141	137.5	130	123	116.5
VMX120-7	75		162.5	160.5	158.5	155	151	148	145	137	129	123

Installation sketch

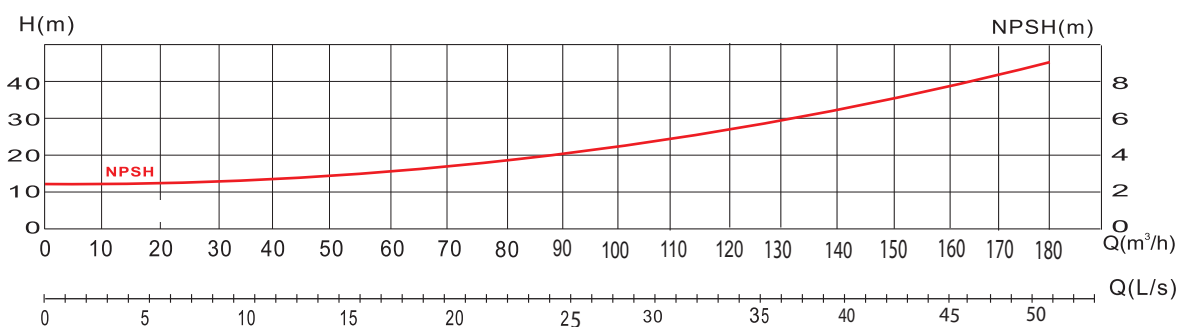
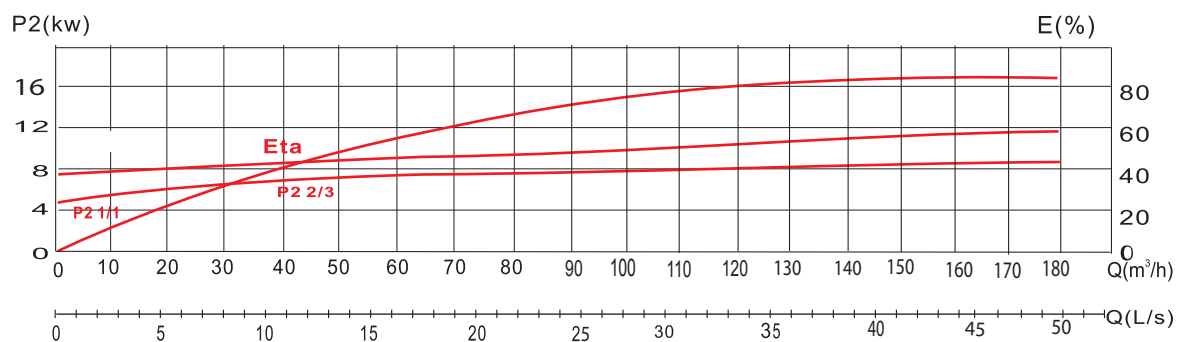
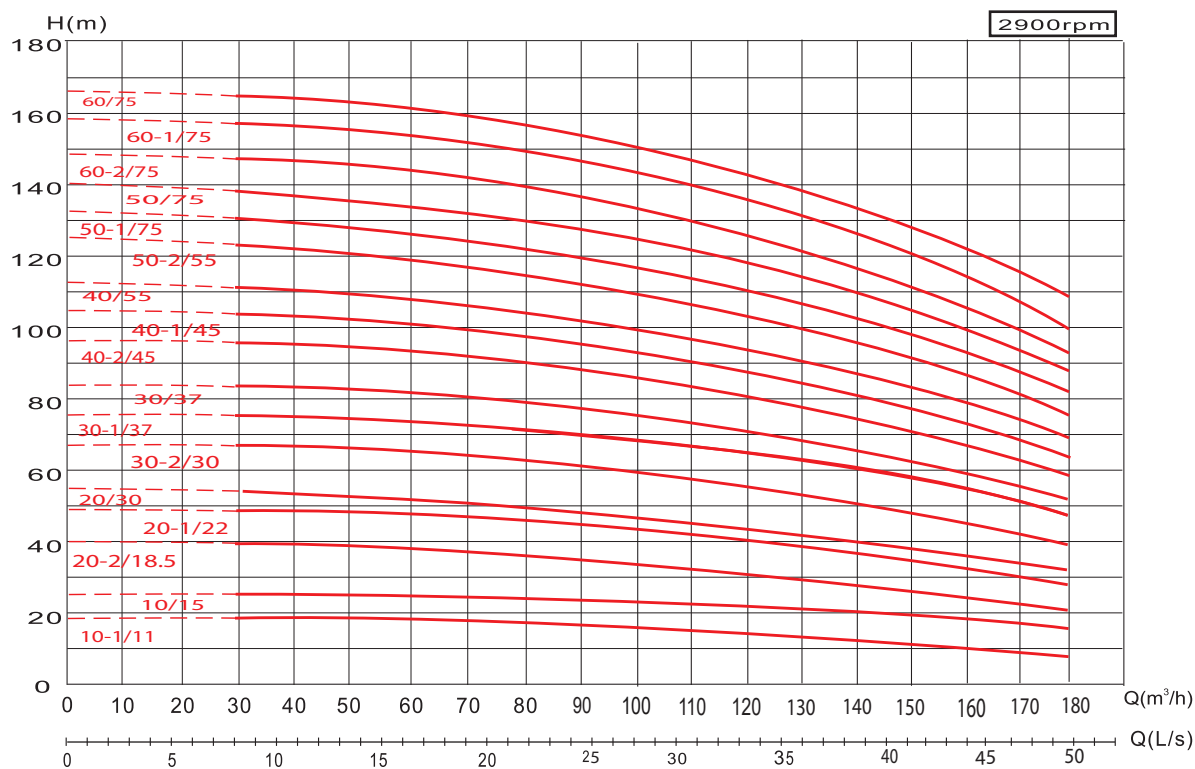


Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMX120-1	840	490	1330	330	255	230
VMX120-2-2	1000	490	1490	330	255	245
VMX120-2-1	1000	550	1550	330	255	250
VMX120-2	1000	590	1590	360	285	285
VMX120-3-2	1160	660	1820	400	310	360
VMX120-3-1	1160	660	1820	400	310	360
VMX120-3	1160	660	1820	400	310	360
VMX120-4-2	1320	660	1980	400	310	400
VMX120-4-1	1320	660	1980	400	310	400
VMX120-4	1320	700	2020	460	340	460
VMX120-5-2	1480	700	2180	460	340	470
VMX120-5-1	1480	700	2180	460	340	470
VMX120-5	1510	770	2280	540	370	575
VMX120-6-2	1670	770	2440	540	370	585
VMX120-6-1	1670	770	2440	540	370	585
VMX120-6	1670	845	2515	580	410	705
VMX120-7-2	1830	845	2675	580	410	715
VMX120-7-1	1830	845	2675	580	410	715
VMX120-7	1830	845	2675	580	410	715



PERFORMANCE CURVE FOR VERTICAL MULTISTAGE 150 SERIES

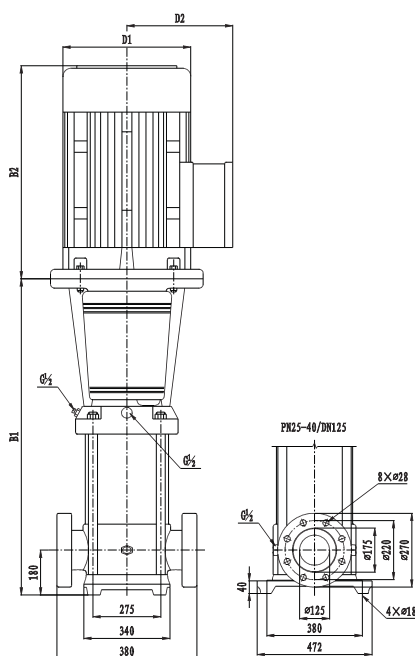
VMX 150



Performance table

Model	Motor(kw)	Q (m ³ /h)	80	90	100	110	120	130	140	150	160	170	180
VMX150-1-1	11	H (m)	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5
VMX150-1	15		24	23	22.5	22	21.5	20.5	20	18.5	17	16	15
VMX150-2-2	18.5		37	35.5	34	33	32	31	29	27.5	26	23	21
VMX150-2-1	22		44.3	43	42	40	39	38.5	37.5	35	33	30	27
VMX150-2	30		50	49	48	47	45.5	44	42	40	37	34	32
VMX150-3-2	30		63.5	61	59	57.5	56	54.5	53	49	45.5	42	39
VMX150-3-1	37		70	68	67	65	63	62	60	56	53	49	45
VMX150-3	37		78	76.5	75	73	70.5	68	66	63	59	55	50.5
VMX150-4-2	45		89	87	84	81.5	79	77	74.5	70.5	65.5	60	56
VMX150-4-1	45		96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62
VMX150-4	55		104	102	100	97	95	91	88	84	79.5	74	68
VMX150-5-2	55		115.5	112	109	106	102.5	100	97	92	86	79	73.5
VMX150-5-1	75		122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80
VMX150-5	75		130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5
VMX150-6-2	75		140	137	133	130	126	121	118	112	106	98	91
VMX150-6-1	75		148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5
VMX150-6	75		157	153	149	145	142	139.5	137	130	123.5	116	109

Installation sketch



Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
VMX150-1-1	840	490	1330	330	255	230
VMX150-1	840	490	1330	330	255	235
VMX150-2-2	1000	550	1550	330	255	250
VMX150-2-1	1000	590	1590	360	285	295
VMX150-2-0	1000	660	1660	400	310	350
VMX150-3-2	1160	660	1820	400	310	360
VMX150-3-1	1160	660	1820	400	310	360
VMX150-3	1160	660	1820	400	310	385
VMX150-4-2	1320	700	2020	460	340	460
VMX150-4-1	1320	700	2020	460	340	460
VMX150-4	1350	770	2120	540	370	560
VMX150-5-2	1510	770	2280	540	370	570
VMX150-5-1	1510	845	2355	580	410	690
VMX150-5	1510	845	2355	580	410	690
VMX150-6-2	1670	845	2515	580	410	700
VMX150-6-1	1670	845	2515	580	410	700
VMX150-6	1670	845	2515	580	410	700



LOAD LOSSES TABLE

LOAD LOSSES (PC) IN METERS (COLUMN OF WATER) FLOW RATE (V M/S)

Capacity		Internal diameter in mm																											
		25	32	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	450	500	600	700	800	900	1000		
3	Pc% Vm/s	17 1.70	6 1.03	1.6 0.67	0.54 0.43	0.25 0.22	0.13 0.16	0.06 0.13	0.03 0.13	0.02 0.10																			
6	Pc% Vm/s		24 2.06	6 1.34	2 0.85	0.9 0.58	0.43 0.44	0.21 0.32	0.13 0.26	0.08 0.20	0.026 0.13																		
9	Pc% Vm/s			12.5 2.08	4.3 1.32	1.8 0.89	0.9 0.65	0.46 0.5	0.25 0.39	0.15 0.32	0.06 0.20																		
12	Pc% Vm/s			20 2.76	7 0.76	32 1.19	1.5 0.88	0.75 0.67	0.44 0.53	0.25 0.43	0.09 0.27	0.03 0.18																	
15	Pc% Vm/s				12 2.2	5.2 1.49	2.4 1.1	1.25 0.87	0.7 0.66	0.42 0.54	0.15 0.34	0.06 0.24																	
18	Pc% Vm/s				17 2.64	7 1.78	3.5 1.3	1.7 1	1 0.78	0.6 0.64	0.2 0.4	0.08 0.28																	
21	Pc% Vm/s				22 3.35	8.8 2.08	4.2 1.54	2.2 1.17	1.3 0.93	0.75 0.75	0.26 0.48	0.1 0.32	0.05 0.24																
24	Pc% Vm/s					12 2.38	5.7 1.76	3 1.34	1.7 1.06	1 0.86	0.36 0.54	0.14 0.36	0.07 0.28																
27	Pc% Vm/s					14 2.7	7 1.97	3.5 1.45	2 1.17	1.25 0.96	0.42 0.6	0.17 0.42	0.08 0.31																
30	Pc% Vm/s					17 2.98	8.2 2.2	4.2 1.74	2.5 1.32	1.5 1.08	0.5 0.68	0.2 0.48	0.09 0.34																
36	Pc% Vm/s					25 3.58	12 2.63	6.3 2	3.5 1.58	2 1.28	0.75 0.52	0.3 0.57	0.14 0.42	0.07 0.32															
42	Pc% Vm/s						16 3.07	8.5 2.34	4.5 1.85	2.7 1.5	0.85 0.96	0.33 0.66	0.18 0.48	0.08 0.37															
48	Pc% Vm/s						21 3.51	10 2.68	6 2.12	3.6 1.75	1.2 1.08	0.45 0.72	0.22 0.56	0.12 0.43	0.06 0.37														
54	Pc% Vm/s						25 3.94	13.5 3	7.6 2.34	4.5 1.92	1.5 1.2	0.55 0.84	0.28 0.63	0.14 0.48	0.08 0.38														
60	Pc% Vm/s							16 3.32	9 2.64	5.5 2.16	1.8 1.36	0.7 0.96	0.33 0.68	0.17 0.53	0.1 0.42														
75	Pc% Vm/s							24 4.17	14 3.31	8 2.68	2.76 1.72	1 1.18	0.48 0.87	0.24 0.67	0.14 0.53	0.08 0.43													
90	Pc% Vm/s								20 3.97	12.5 3.24	3.8 2.04	1.45 1.44	0.74 1.02	0.36 0.8	0.2 0.63	0.14 0.51	0.08 0.42												
105	Pc% Vm/s								26 4.6	16.5 3.74	5.3 2.41	1.95 1.66	0.9 1.22	0.47 0.93	0.27 0.74	0.16 0.59	0.1 0.49												
120	Pc% Vm/s									21.5 4.31	6.9 4.72	2.6 1.93	1.2 1.35	0.61 1.06	0.36 0.84	0.2 0.68	0.14 0.56	0.08 0.47											
135	Pc% Vm/s									26 4.81	9 1.07	3.3 2.43	1.5 1.56	0.76 1.19	0.45 0.95	0.25 0.76	0.17 0.63	0.1 0.53											
150	Pc% Vm/s										11 3.44	4 2.36	1.9 1.74	0.95 1.34	0.55 1.05	0.3 0.86	0.21 0.70	0.12 0.59	0.06 0.43										
165	Pc% Vm/s										13 3.75	4.7 2.61	2.2 1.94	1.13 1.46	0.65 1.15	0.37 0.94	0.24 0.77	0.15 0.65	0.08 0.48										
180	Pc% Vm/s										15.2 4.09	5.5 2.83	2.6 2.08	1.3 1.59	0.76 1.26	0.43 1.02	0.29 0.84	0.18 0.71	0.09 0.52										
210	Pc% Vm/s										21 4.70	7.4 3.32	3.5 2.43	1.8 1.86	1.1 1.49	0.6 1.19	0.37 0.98	0.24 0.82	0.12 0.61	0.06 0.47									
240	Pc% Vm/s											9.4 3.78	4.3 2.77	2.3 2.12	1.3 1.68	0.75 1.36	0.48 1.12	0.3 0.95	0.15 0.69	0.08 0.53									
270	Pc% Vm/s											12 4.26	5.5 3.13	2.8 2.39	1.62 1.90	0.9 1.53	0.58 1.26	0.35 0.78	0.18 0.59	0.09 0.59									
300	Pc% Vm/s											14 4.75	7.5 3.47	3.4 2.66	2 2.10	1.1 1.71	0.74 1.40	0.46 0.86	0.22 0.67	0.11 0.53									
360	Pc% Vm/s												9 4.15	4.7 3.17	2.8 2.53	1.6 2.04	1 1.68	0.65 1.41	0.32 1.04	0.16 0.79	0.09 0.63	0.05 0.51							
420	Pc% Vm/s													11.6 4.86	6.2 3.72	3.5 2.94	2 2.37	1.3 1.96	0.82 1.64	0.41 1.22	0.21 0.94	0.12 0.76	0.07 0.59	0.03 0.41					
480	Pc% Vm/s														8.5 4.24	4.9 3.36	2.9 2.72	1.9 2.24	1.2 1.90	0.6 1.36	0.3 1.06	0.17 0.84	0.09 0.69	0.04 0.47					
540	Pc% Vm/s															14 4.78	6.5 3.80	3.7 3.06	2.35 2.52	1.52 2.13	0.75 1.56	0.38 1.19	0.22 0.94	0.12 0.76	0.05 0.53				
600	Pc% Vm/s																12.2 5.30	7.4 4.20	4.3 3.40	2.7 2.81	1.7 2.36	0.9 1.73	0.45 1.34	0.25 1.06	0.13 0.86	0.055 0.61	0.024 0.44		
660	Pc% Vm/s																	9 4.61	5.2 3.76	3.3 3.07	2.1 2.59	1.1 1.89	0.54 1.46	0.3 0.15	0.16 0.93	0.06 0.65	0.04 0.48		
720	Pc% Vm/s																		10 5.05	6 4.08	3.8 3.37	2.5 2.84	1.3 2.08	0.62 1.65	0.35 1.26	0.19 1.02	0.075 0.52		
780	Pc% Vm/s																			7.3 4.43	4.5 3.65	3 3.08	1.5 2.26	0.75 1.73	0.42 1.36	0.23 1.11	0.08 0.56		
840	Pc% Vm/s																				8 4.76	5.4 3.95	3.4 3.31	1.7 2.43	0.85 1.86	0.48 1.47	0.26 1.19	0.1 0.83	
900	Pc% Vm/s																					9 5.1	5.8 4.22	3.75 3.54	1.9 2.60	0.96 2.00	0.53 1.57	0.29 1.27	0.11 0.88
960	Pc% Vm/s																						6.5 4.49	4.3 3.78	2.1 2.77	2.1 2.13	0.6 1.68	0.32 1.36	
1020	Pc% Vm/s																							7.2 4.76	4.6 4.01	2.45 2.94	1.2 2.26	0.67 1.78	
1080	Pc% Vm/s																									5.4 4.26	2.8 3.12		
1140	Pc% Vm/s																										6 4.49		
1200	Pc% Vm/s																												

Discharge diameter
Suction diameter diameter

NOTES



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