



APEC-SUN

**Stainless Steel Vertical
Multistage Centrifugal Pump**



GENERAL INTRODUCTION:

AVM Series is a kind of non self-priming stainless steel vertical multistage centrifugal pumps, which adopts classical vertical IEC standard electric motor and assembly cartridge mechanical seal. It possesses many advantages, such as small volume, high head, light weight, low noise, easy maintenance, elegant appearance, etc. AVM Series are widely used in the areas of daily life, industry, agriculture, water treatment system, and so on.

APPLICATIONS:

Water supply and pressure boosting:

- Pressure boosting in buildings, hotels, residential complexes.
- Pressure booster stations, supply of water networks.
- Booster packages.

Water treatment:

- Ultrafiltration systems.
- Reverse osmosis systems.
- Water softeners and de-mineralization.
- Distillation systems.
- Filtration.

Light industry:

- Washing and cleaning plants (washing and degreasing of mechanical parts, car, and truck wash tunnels, washing of electronic industry circuits).
- Commercial washers.
- Fire fighting system pumps.
- Jockey pump for fire fighting system.

Irrigation and agriculture:

- Greenhouses.
- Humidifiers.
- Sprinkler irrigation.

Heating, ventilation and air conditioning (HVAC):

- Cooling towers and systems.
- Temperature control systems.
- Refrigerators.
- Induction heating.
- Heat exchangers.
- Boilers.
- Water recirculation and heating.

FEATURES:

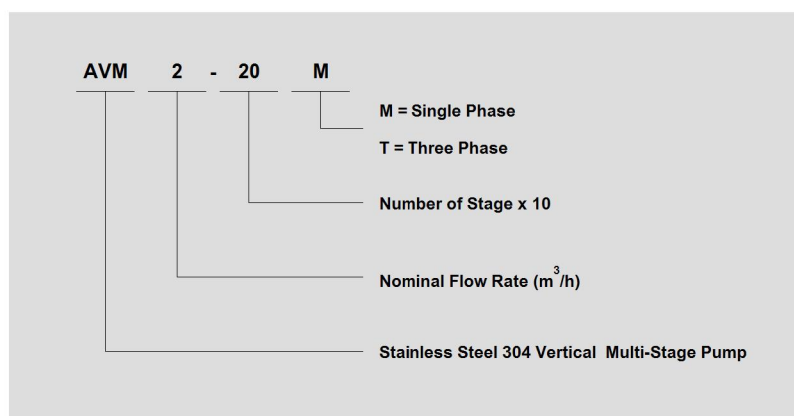
MOTOR

- Squirrel cage in short circuit, aluminium casing, enclosed construction with external ventilation.
- IP55 protection.
- Class F insulation.

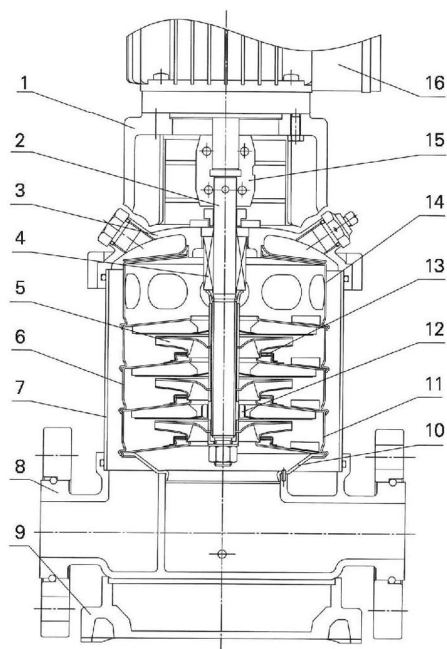
PUMP

- Flow rate up to 110 m³/h.
- Head up to 330 m.
- Temperature of pumped liquid:
 - Normal type : -15°C to 79°C.
 - Special type : 80°C to 120°C.
- Clean, nonflammable, and non-explosive medium without solid particles and fibers.
- Mildly corrosive liquid without solid particles.
- Vertical and compac structure, the inlet and outlet flanges are located at the same central line, small area occupation and easy installation.
- Assembly cartridge mechanical seal, making installation and maintenance safer and more convenient, and guaranteeing the reliability of the mechanical seal.
- Flow parts are made of stainless steel, which will not contaminate medium and possess lengthy service life and elegant appearance.
- Electric motor shaft directly and accurately connects with pump shaft through coupling.
- Lower noise and less vibration.
- Standardized design and outstanding universality.

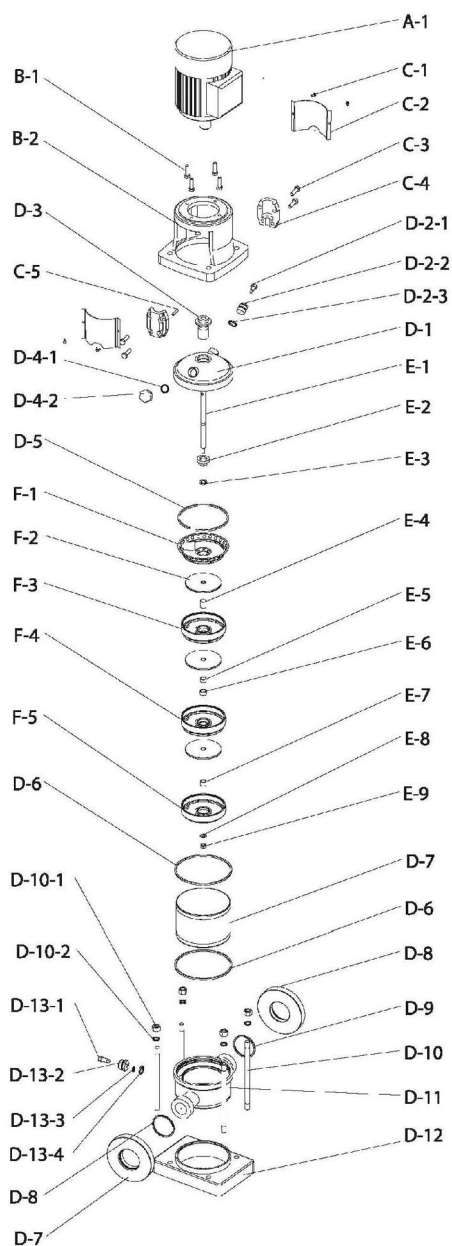
TYPE DESCRIPTION:



CONSTRUCTION:



NO.	NAME	MATERIAL
1	Motor Base	Cast Iron
2	Pump Shaft	Stainless Steel
3	Mechanical Seal Bed	Stainless Steel
4	Mechanical Seal	Subassembly
5	Impeller	Stainless Steel
6	Intermediate Body	Stainless Steel
7	Cylinder	Stainless Steel
8	Inlet and Outlet Section	Stainless Steel
9	Pump Base	Cast Iron
10	Inlet Intermediate Body	Stainless Steel
11	Intermediate Body with Bearing	Stainless Steel
12	Sliding Bearing	Tungsten Catbide
13	Sealing Ring	F-4
14	Outlet Intermediate Body	Stainless Steel
15	Coupling	GS-45
16	Electric Motor	Subassembly



NO.	NAME
A-1	Motor
B-1	Bolt
B-2	Motor Base
C-1	Screw
C-2	Coupling Cover
C-3	Screw
C-4	Coupling
C-5	Pin
D-1	Mechanical Seal Seat
D-2-1	Air Vent Screw
D-2-2	Air Vent Nut
D-2-3	O-Ring
D-3	Cartridge Mechanical Seal
D-4-1	O-Ring
D-4-2	Gag
D-5	Corrugated Spring
D-6	O-Ring
D-7	Cylinder
D-8	Flange
D-9	Washer
D-10	Rod
D-10-1	Nut
D-10-2	Gasket

NO.	NAME
D-11	Inlet & Outlet Section
D-12	Pump Base
D-13-1	Drainage Screw
D-13-2	Drainage Nut
D-13-3	O-Ring
D-13-4	O-Ring
E-1	Pump Shaft
E-2	Washer Sleeve
E-3	Washer
E-4	Impeller Sleeve
E-5	Short Sleeve
E-6	Water Bearing Inner Ring
E-7	First Stage Sleeve
E-8	Washer
E-9	Nut
F-1	Discharge Stage
F-2	Impeller
F-3	Middle - Stage with Bearing
F-4	Middle - Stage
F-5	Suction - Stage

PRODUCTS:

PUMP MODEL	AVM2	AVM4	AVM8	AVM16	AVM30	AVM45	AVM65	AVM90
Rated Flow (m ³ /h)	2	4	8	16	32	45	65	90
Flow Range (m ³ /h)	1-3.2	41457	41584	44044	15-36	22-55	30-80	45-110
Max Pressure (bar)	24	22	22	23	28	32	22	20
Electric Power (kW)	0.37-3	0.37-4	0.75-7.5	2.2-15	1.5-30	3-45	4-45	5.5-45
Temperature (°C)	Normal Type : -15°C up to 79°C				Special Type : 80°C up to 120°C			
Max Efficiency (%)	48	59	64	70	78	79	80	81
Flange	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN100

MAX WORKING PRESSURE:

PUMP MODEL	MAX WORKING PRESSURE (bar)
AVM2	25
AVM4	25
AVM8	25
AVM16	25
AVM32-10/1 - AVM32-70	16
AVM32-80/2 - AVM32-120	25
AVM32-130/2 - AVM32-140	30

PUMP MODEL	MAX WORKING PRESSURE (bar)
AVM45-10/1 - AVM45-50	16
AVM45-60/2 - AVM45-90	25
AVM45-100/2 - AVM45-130/2	33
AVM65-10/1 - AVM65-50	16
AVM65-60/2 - AVM65-80/1	25
AVM90-10/1 - AVM90-40	16
AVM90-50/2 - AVM90-60	25

MAX INLET PRESSURE:

PUMP MODEL	MAX INLET PRESSURE (bar)
AVM2-20	6
AVM2-30 - AVM2-110	10
AVM2-120 - AVM2-260	15
AVM4-20	6
AVM4-30 - AVM4-100	10
AVM4-110 - AVM4-220	15
AVM8-20 - AVM8-60	6
AVM8-70 - AVM8-200	10
AVM16-20 - AVM16-30	6
AVM16-40 - AVM16-160	10
AVM32-10/1 - AVM32-20/2	3
AVM32-20 - AVM32-40	4

PUMP MODEL	MAX INLET PRESSURE (bar)
AVM32-50/2 - AVM32-100	10
AVM32-110/2 - AVM32-140	15
AVM45-10/1	3
AVM45-10 - AVM45-20	4
AVM45-30/2 - AVM45-40	10
AVM45-50/2 - AVM45-130/2	15
AVM65-10/1 - AVM65-20/2	4
AVM65-20/1 - AVM65-30/1	10
AVM65-30 - AVM65-80/1	15
AVM90-10/1 - AVM90-10	4
AVM90-20/2 - AVM90-20	10
AVM90-30/2 - AVM90-60	15

Note: When the is in practical use, the actual inlet pressure plus the closing valve pressure must be lower than the max working pressure.

MINIMUM INLET PRESSURE NPSH:

If the pressure in pump is lower than the steaming pressure, cavitaions might occur. To avoid cavitaions, a minimum pressure at the inlet side of the pump must be guaranteed. The maximum suction head can refer to the below figure and be calculated as the following formula:

$$H = P_b \times 10.2 - \text{NPSH} - H_f - H_v - H_s \text{ (m)}.$$

P_b = atmosphere pressure (bar), the pressure can be set as 1 bar. In a closed system, P_b means system pressure (bar).

NPSH = Net positive suctin head (m), it can be read out from the point of possible max flow rate shown on NPSH curve.

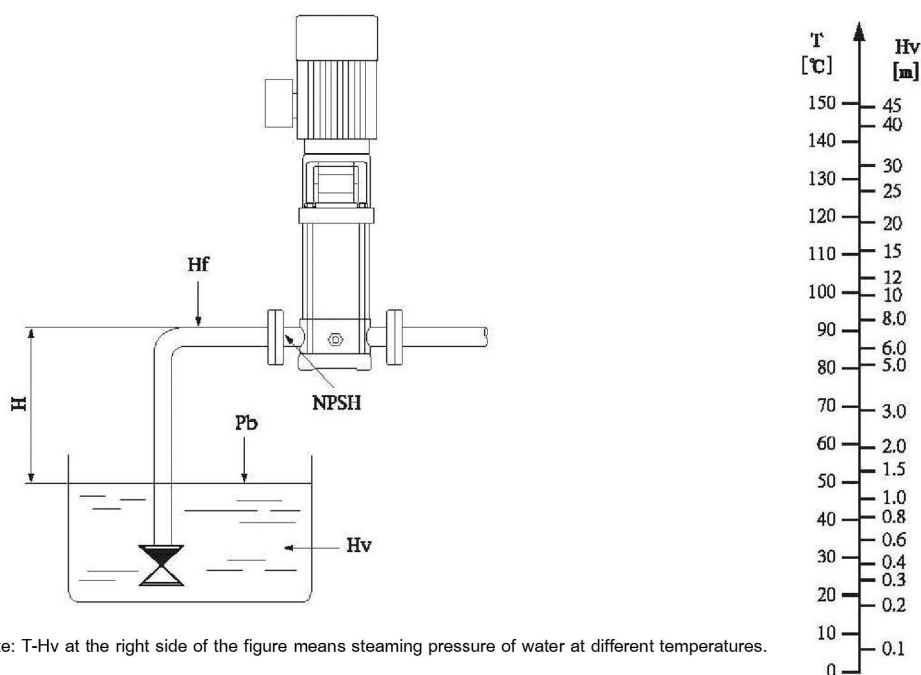
H_f = Pipeline loss at the inlet (m).

H_v = Steaming pressure (m).

H_s = Safety margin, it means minimum 0.5m delivery head.

If the calculated result H is positive, the pump may run under the max suction head H .

If the calculated result H is negative, a pressure over H is required at the inlet side of the pump.



MINIMUM FLOW RATE:

To avoid damages caused by overheating, the pump mustn't rum under minimum flow rate.

PUMP MODEL	MINIMIUM FLOW RATE (m ³ /h)	
	< 80 °C	80 °C - 120 °C
AVM2	0.2	0.5
AVM4	0.4	1.0
AVM8	0.8	2.0
AVM16	1.6	4.0

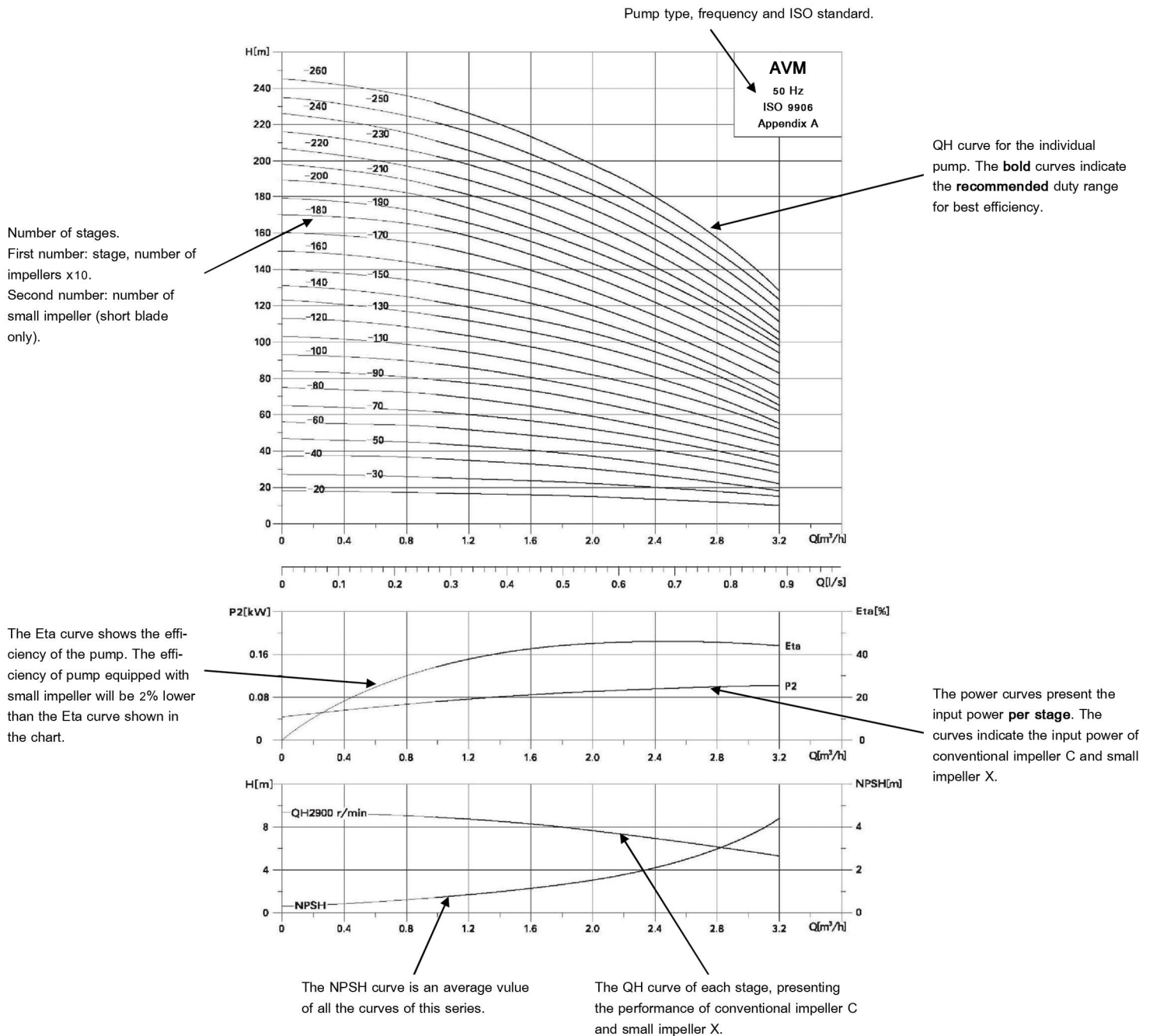
PUMP MODEL	MINIMIUM FLOW RATE (m ³ /h)	
	< 80 °C	80 °C - 120 °C
AVM32	3.2	8.0
AVM45	4.5	10.0
AVM65	6.4	15.0
AVM90	9.0	20.0

INTRODUCTION OF PERFORMANCE CURVE:

The following instructions are suitable for the performance curves shown below:

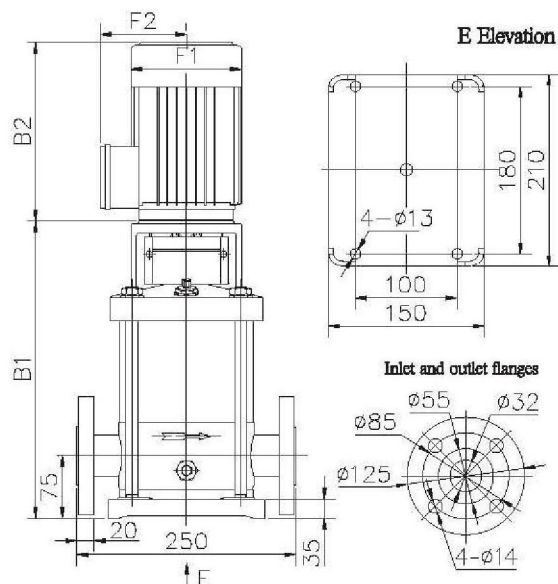
- Tolerances to ISO 9906, Annex A, if indicated.
- The motors used for the measurements are 3 phase, 380-450V, 50Hz and constant motor speed at 2900 rpm.
- Measurements have been made with air-free water at normal temperature.
- The operation of pump shall refer to the recommended performance region indicated by the thickened line to prevent dangers due to too small or too large flow rate.

CURVE EXPLANATION:



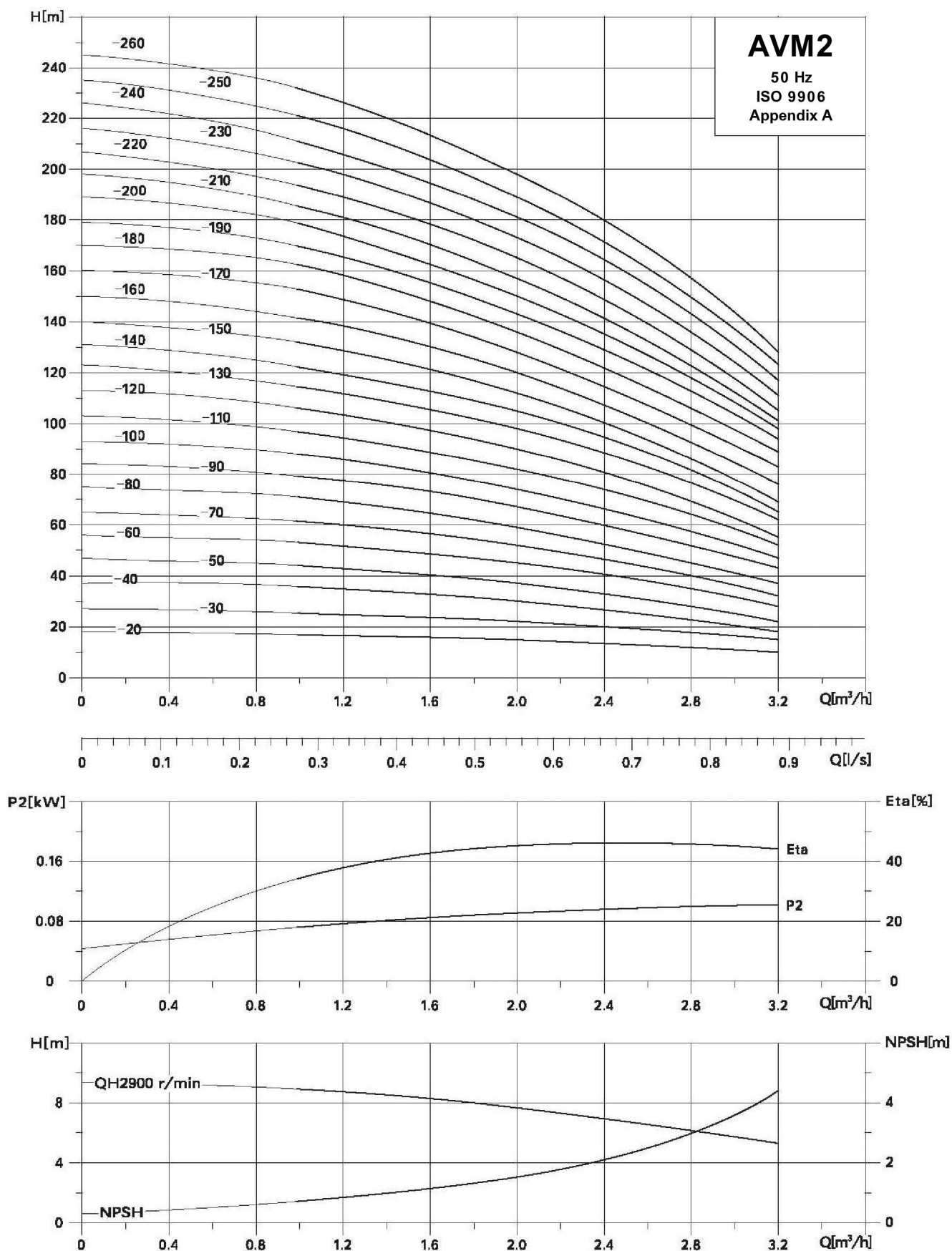
PERFORMANCE PARAMETERS AND DIMENSIONS:

AVM2



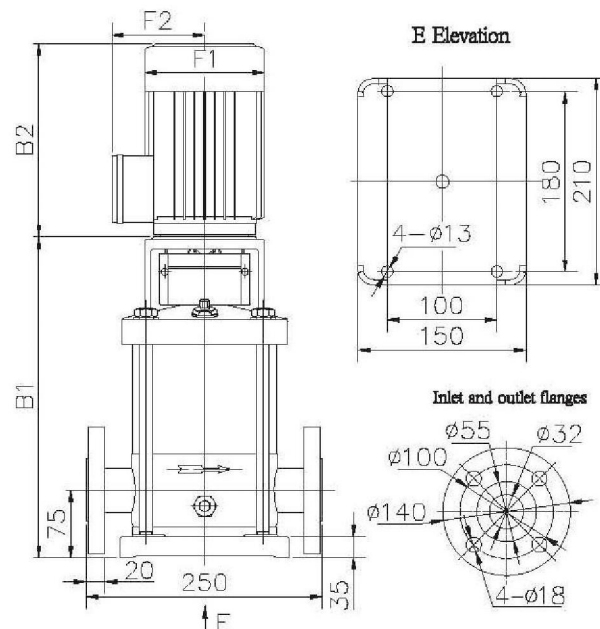
PUMP MODEL	MOTOR POWER		CAPACITY (m ³ /h)							SIZE (mm)					Weight (kg)
	(kW)		1.0	1.2	1.6	2.0	2.4	2.8	3.2	B1	B2	B1+B2	F1	F2	
AVM2-20	0.37	HEAD (m)	17	17	16	15	13	12	10	257	240	497	145	140	22
AVM2-30	0.37		25	25	24	22	20	18	15	275	240	515	145	140	23
AVM2-40	0.55		36	35	33	30	27	23	18	293	240	533	145	140	24
AVM2-50	0.55		44	43	40	37	33	28	22	311	240	551	145	140	24
AVM2-60	0.75		53	52	49	45	41	35	28	338	255	593	175	150	29
AVM2-70	0.75		62	60	57	52	47	40	32	356	255	611	175	150	29
AVM2-80	1.1		71	70	65	59	53	45	37	374	255	629	175	150	30
AVM2-90	1.1		79	78	73	67	60	53	43	392	255	647	175	150	31
AVM2-100	1.1		88	87	81	74	67	58	47	410	255	665	175	150	31
AVM2-110	1.1		95	95	89	82	74	65	52	428	255	683	175	150	32
AVM2-120	1.5		107	104	98	90	81	70	55	457	285	742	195	155	36
AVM2-130	1.5		115	113	106	98	89	77	58	475	285	760	195	155	37
AVM2-140	1.5		123	119	113	105	95	83	64	493	285	778	195	155	38
AVM2-150	1.5		133	130	122	112	101	87	69	511	285	796	195	155	39
AVM2-160	2.2		142	139	131	120	108	93	76	529	285	814	195	155	42
AVM2-170	2.2		153	148	139	128	115	100	83	547	285	832	195	155	43
AVM2-180	2.2		163	159	147	136	123	107	90	565	285	850	195	155	44
AVM2-190	2.2		170	167	156	143	130	114	94	583	285	868	195	155	44
AVM2-200	2.2		176	174	163	150	136	119	98	601	285	886	195	155	45
AVM2-210	2.2		185	182	171	157	142	124	101	619	285	904	195	155	45
AVM2-220	2.2		192	190	179	165	150	130	105	637	285	922	195	155	46
AVM2-230	3		201	198	187	173	157	137	111	665	325	990	215	180	52
AVM2-240	3		210	206	195	181	165	144	117	683	325	1008	215	180	53
AVM2-250	3		221	216	205	189	172	151	123	701	325	1026	215	180	54
AVM2-260	3		232	227	214	198	180	158	128	719	325	1044	215	180	54

PERFORMANCE CURVES:



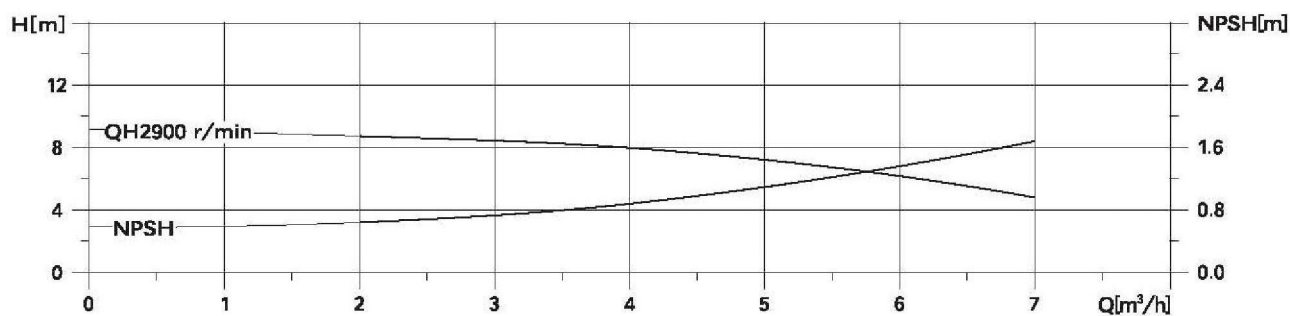
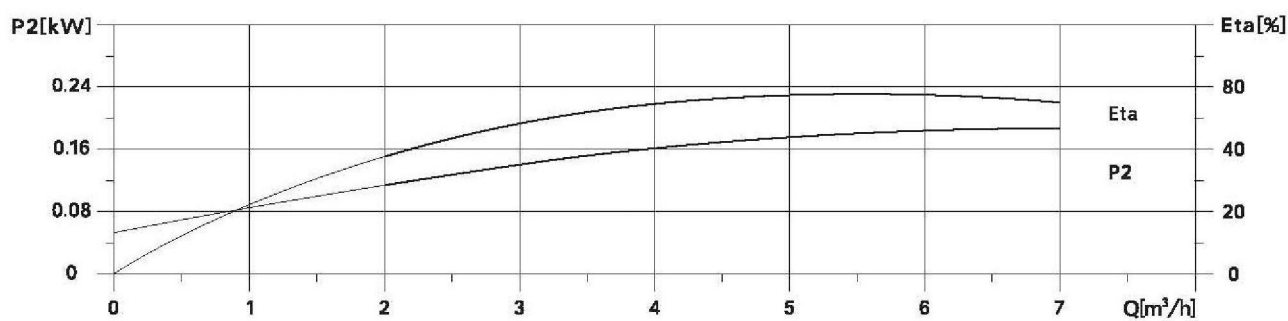
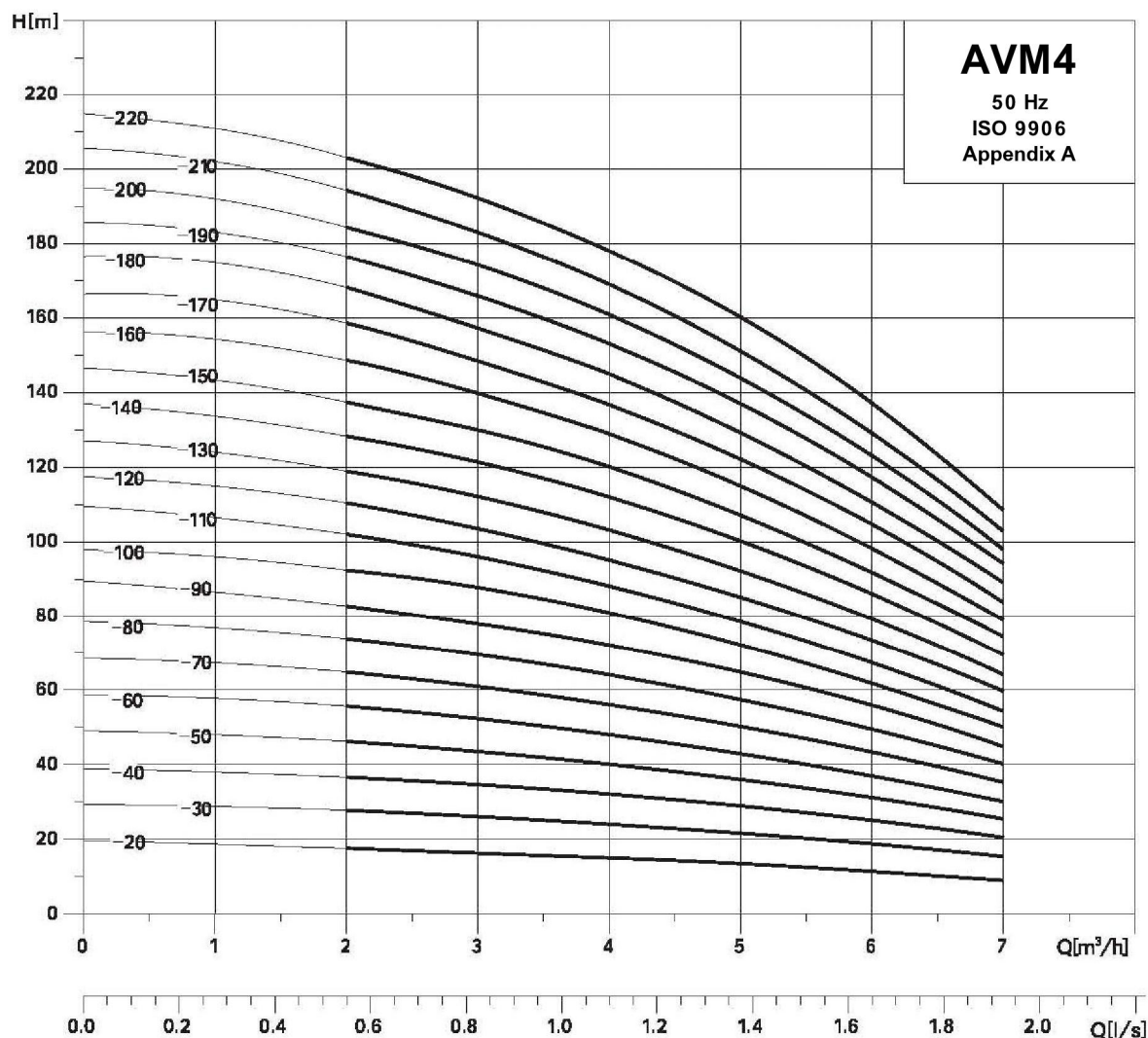
PERFORMANCE PARAMETERS AND DIMENSIONS:

AVM4



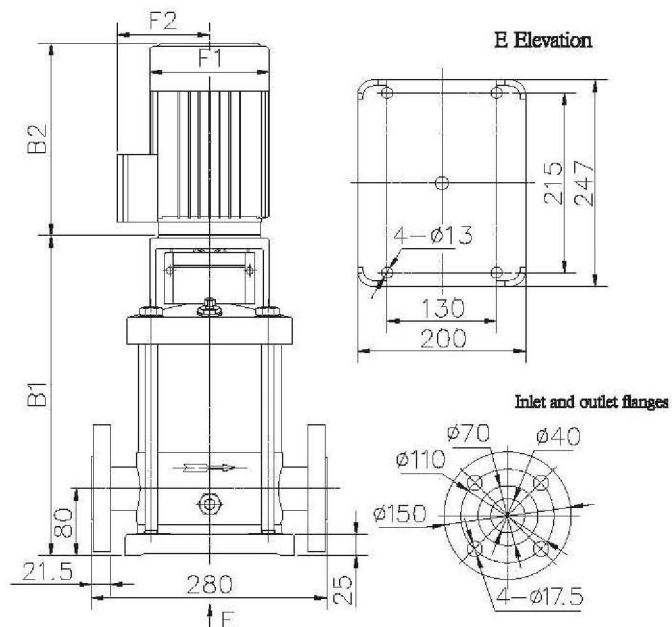
PUMP MODEL	MOTOR POWER		CAPACITY (m ³ /h)							SIZE (mm)					Weight
	(kW)		2.0	3.0	4.0	5.0	6.0	7.0	B1	B2	B1+B2	F1	F2	(kg)	
AVM4-20	0.37	HEAD (m)	18	16	15	13	11	9	275	240	515	145	140	23	
AVM4-30	0.55		28	26	24	21	19	15	302	240	542	145	140	24	
AVM4-40	0.75		37	35	32	29	25	20	338	255	593	175	150	29	
AVM4-50	1.1		46	43	40	36	31	26	365	255	620	175	150	39	
AVM4-60	1.1		56	52	48	43	37	30	392	255	647	175	150	40	
AVM4-70	1.5		65	61	56	50	43	335	430	285	715	195	155	41	
AVM4-80	1.5		74	69	64	57	49	39	457	285	742	195	155	42	
AVM4-90	2.2		83	78	72	65	56	45	484	285	769	195	155	44	
AVM4-100	2.2		92	88	81	72	61	50	511	285	796	195	155	45	
AVM4-110	2.2		102	96	88	79	67	55	538	285	823	195	155	46	
AVM4-120	2.2		110	103	95	85	73	60	565	285	850	195	155	47	
AVM4-130	3		119	112	103	92	79	64	602	325	927	215	180	56	
AVM4-140	3		128	121	112	100	86	69	629	325	954	215	180	57	
AVM4-150	3		137	130	120	107	91	74	656	325	981	215	180	58	
AVM4-160	3		148	140	129	115	98	78	683	325	1008	215	180	59	
AVM4-170	4		158	148	137	122	105	83	710	340	1050	240	190	63	
AVM4-180	4		168	157	145	129	110	89	737	340	1077	240	190	64	
AVM4-190	4		176	166	153	137	117	94	764	340	1104	240	190	65	
AVM4-200	4		184	174	161	143	123	98	791	340	1131	240	190	66	
AVM4-210	4		194	183	169	151	129	103	818	340	1158	240	190	67	
AVM4-220	4		203	192	178	160	137	107	845	340	1185	240	190	67	

PERFORMANCE CURVES:



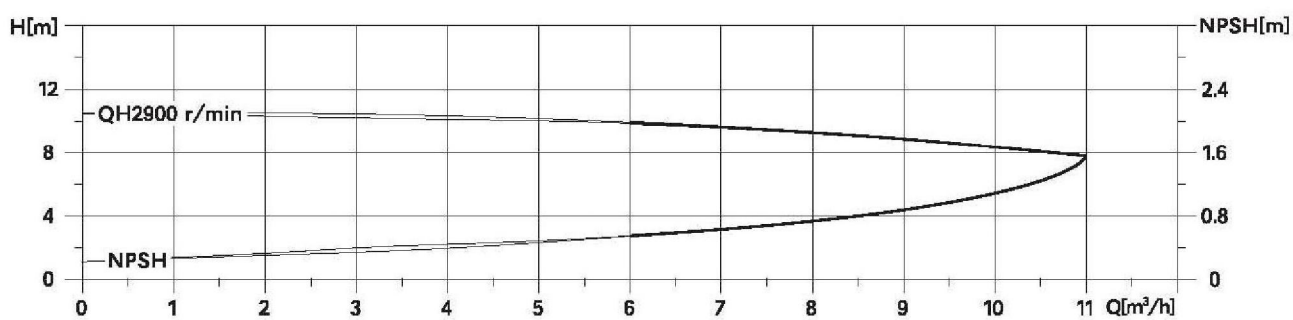
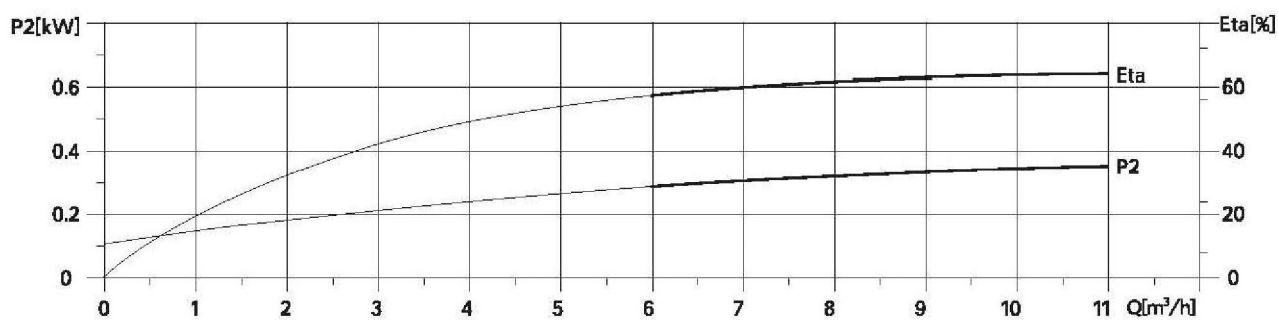
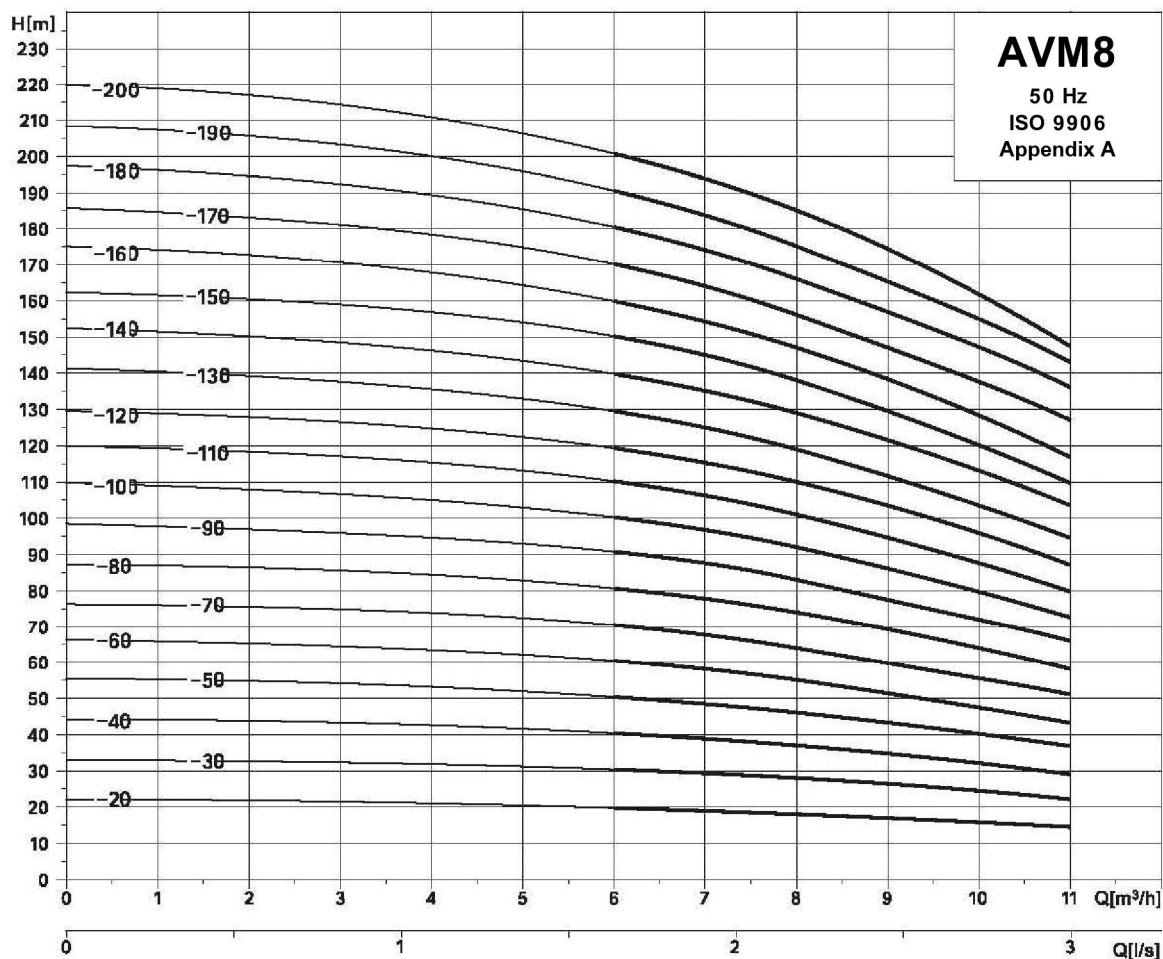
PERFORMANCE PARAMETERS AND DIMENSIONS:

AVM8



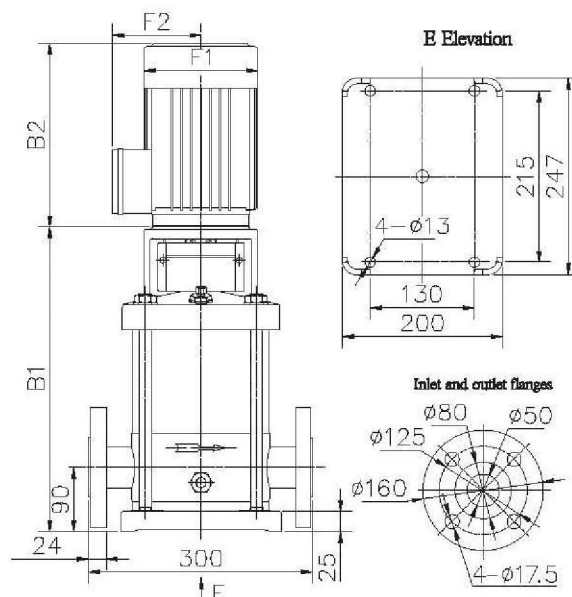
PUMP MODEL	MOTOR POWER		CAPACITY (m ³ /h)						SIZE (mm)					Weight (kg)
	(kW)		6.0	7.0	8.0	9.0	10.0	11.0	B1	B2	B1+B2	F1	F2	
AVM8-20	0.75	HEAD (m)	20	19	18	16	15	15	347	255	602	175	150	43
AVM8-30	1.1		30	29	28	26	24	22	377	255	632	175	150	46
AVM8-40	1.5		41	39	37	35	33	29	422	285	707	195	155	47
AVM8-50	2.2		50	49	46	43	40	37	452	285	737	195	155	51
AVM8-60	2.2		60	59	55	51	47	43	482	285	767	195	155	52
AVM8-70	3		70	68	64	60	55	51	517	325	842	215	180	64
AVM8-80	3		81	78	74	69	63	58	547	325	872	215	180	65
AVM8-90	4		91	88	83	77	72	66	577	340	917	240	190	71
AVM8-100	4		100	97	92	86	80	72	607	340	947	240	190	72
AVM8-110	4		111	107	101	94	88	80	637	340	977	240	190	73
AVM8-120	4		119	116	110	103	96	87	667	340	1007	240	190	74
AVM8-130	5.5		130	125	119	111	103	94	717	390	1107	275	210	98
AVM8-140	5.5		140	135	129	121	113	103	747	390	1137	275	210	99
AVM8-150	5.5		150	145	138	129	120	110	777	390	1167	275	210	100
AVM8-160	5.5		160	155	147	138	129	117	807	390	1197	275	210	101
AVM8-170	7.5		170	164	156	147	137	127	837	390	1227	275	210	105
AVM8-180	7.5		181	174	166	157	147	136	867	390	1257	275	210	106
AVM8-190	7.5		191	184	175	165	155	143	897	390	1287	275	210	107
AVM8-200	7.5		201	194	185	175	162	147	927	390	1317	275	210	108

PERFORMANCE CURVES:



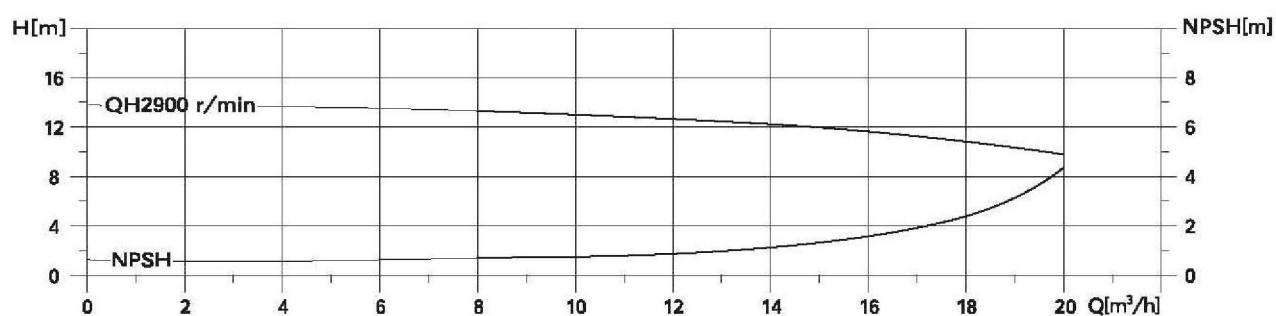
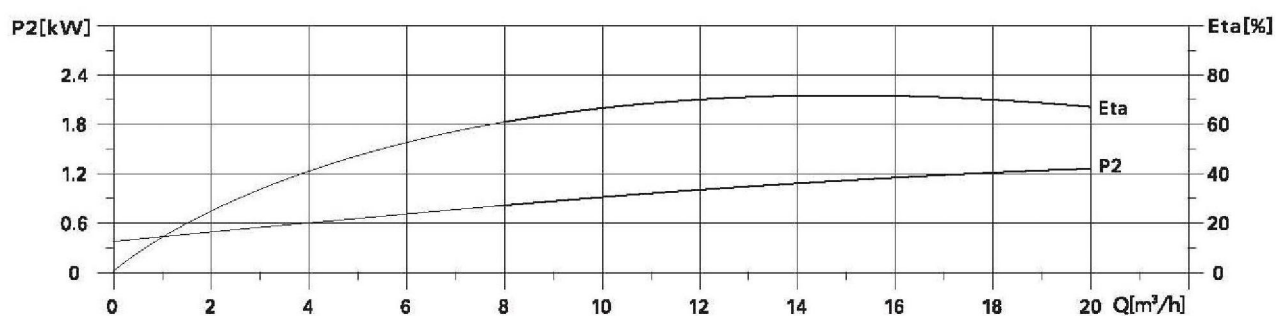
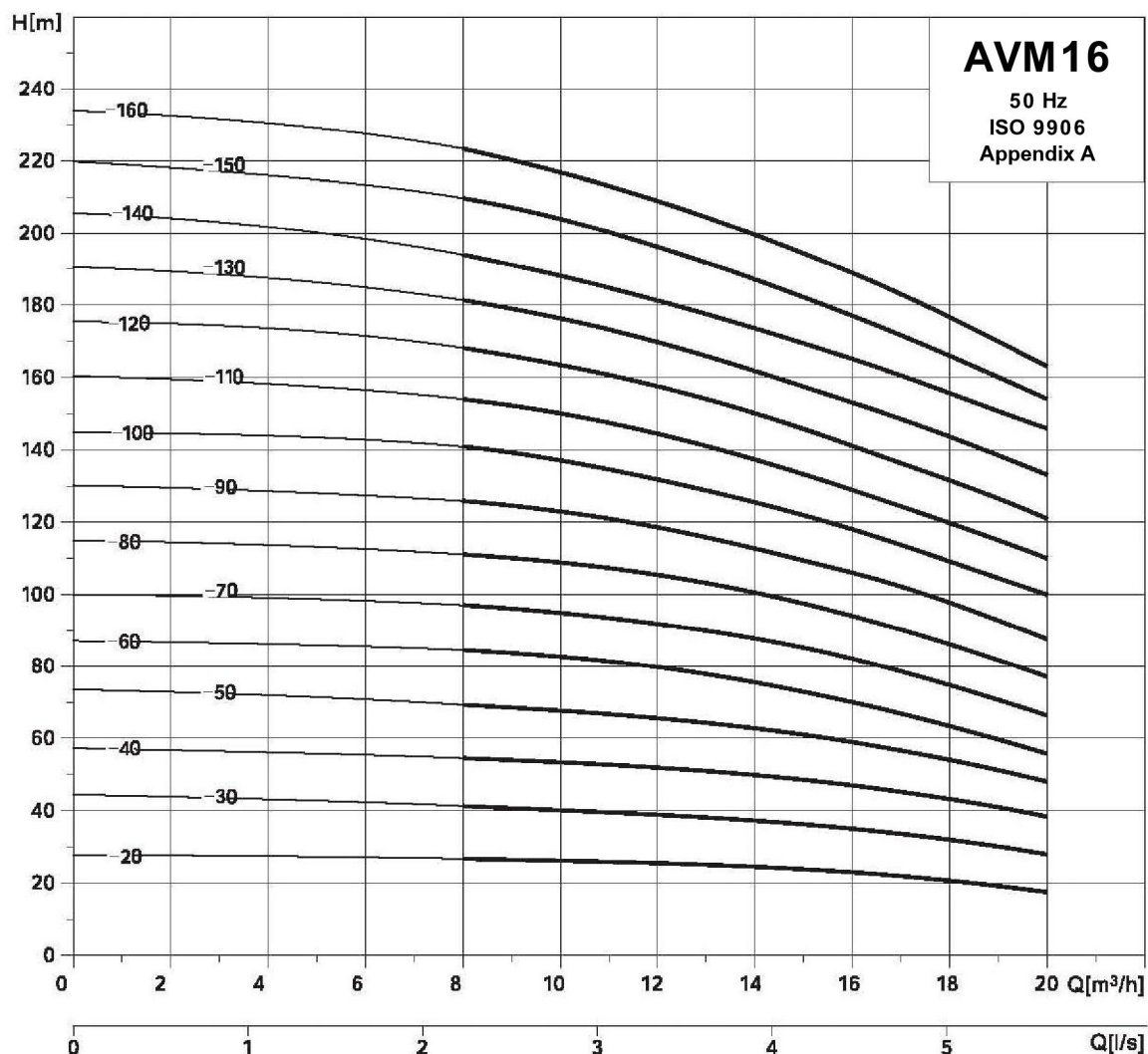
PERFORMANCE PARAMETERS AND DIMENSIONS:

AVM16



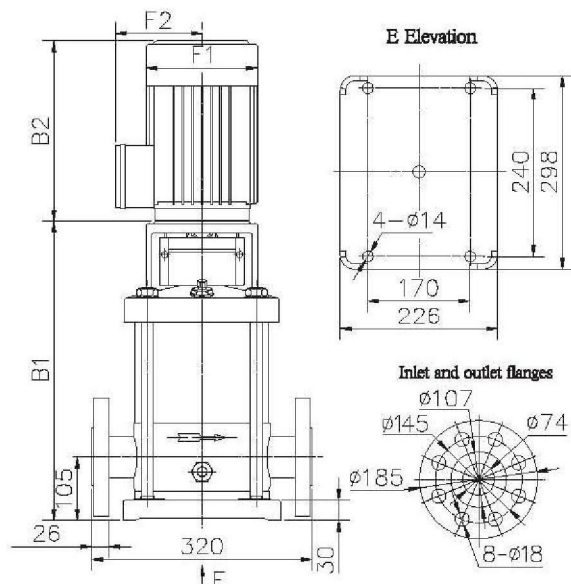
PUMP MODEL	MOTOR POWER		CAPACITY (m ³ /h)							SIZE (mm)					Weight (kg)
	(kW)		8.0	10.0	12.0	14.0	16.0	18.0	20.0	B1	B2	B1+B2	F1	F2	
AVM16-20	2.2	HEAD (m)	26	26	25	24	23	20	17	405	285	690	195	155	54
AVM16-30	3		41	40	38	37	35	32	28	455	325	780	215	180	66
AVM16-40	4		54	53	52	50	47	43	38	500	340	840	240	190	72
AVM16-50	5.5		69	68	65	62	59	54	47	625	390	1015	275	210	95
AVM16-60	5.5		85	83	80	75	70	64	56	670	390	1060	275	210	96
AVM16-70	7.5		97	95	92	87	82	75	66	715	390	1105	275	210	101
AVM16-80	7.5		111	109	105	100	94	86	77	760	390	1150	275	210	102
AVM16-90	11		126	123	119	113	106	98	87	865	500	1365	315	250	158
AVM16-100	11		141	137	132	125	118	110	100	910	500	1410	315	250	160
AVM16-110	11		154	150	144	137	129	120	110	955	500	1455	315	250	161
AVM16-120	11		168	164	158	150	141	132	121	1000	500	1500	315	250	162
AVM16-130	15		182	177	170	162	153	144	133	1045	500	1545	315	250	171
AVM16-140	15		195	188	182	173	165	155	146	1090	500	1590	315	250	173
AVM16-150	15		210	204	196	187	177	166	154	1135	500	1635	315	250	174
AVM16-160	15		224	217	209	199	189	177	164	1180	500	1680	315	250	175

PERFORMANCE CURVES:



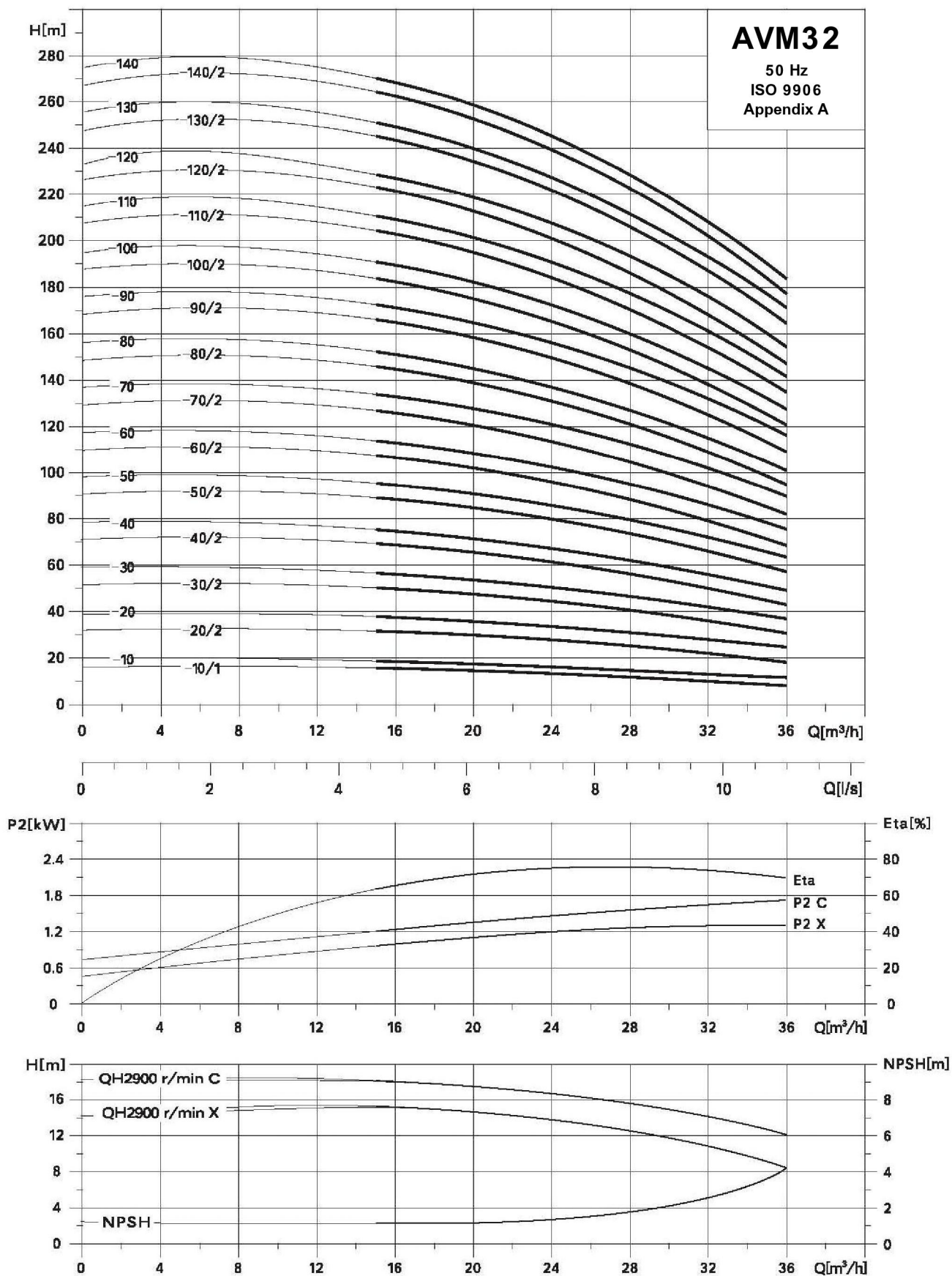
PERFORMANCE PARAMETERS AND DIMENSIONS:

AVM32



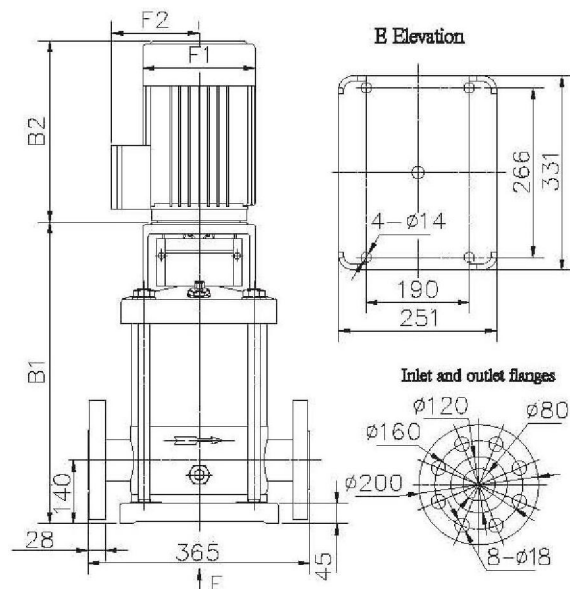
PUMP MODEL	MOTOR POWER		CAPACITY (m ³ /h)							SIZE (mm)					Weight (kg)
	(kW)		15.0	16.0	20.0	24.0	28.0	32.0	36.0	B1	B2	B1+B2	F1	F2	
AVM32-10/1	1.5	HEAD (m)	16	16	14	13	12	10	8	505	285	790	195	155	71
AVM32-10	2.2		19	18	17	16	14	13	12	505	285	790	195	155	74
AVM32-20/2	3		32	31	30	28	25	22	18	575	325	900	215	180	81
AVM32-20	4		38	37	36	34	31	28	24	575	340	915	240	190	88
AVM32-30/2	5.5		51	50	47	45	41	36	30	645	390	1035	275	210	104
AVM32-30	5.5		57	56	53	50	46	42	36	645	390	1035	275	210	104
AVM32-40/2	7.5		69	68	66	61	56	50	43	715	390	1105	275	210	113
AVM32-40	7.5		76	75	71	67	62	56	49	715	390	1105	275	210	113
AVM32-50/2	11		89	88	85	80	74	66	57	895	490	1385	315	250	188
AVM32-50	11		95	94	91	85	79	72	63	895	490	1385	315	250	188
AVM32-60/2	11		108	107	102	96	88	79	69	965	490	1455	315	250	190
AVM32-60	11		114	113	109	102	95	86	76	965	490	1455	315	250	191
AVM32-70/2	15		127	126	121	114	105	94	82	1035	490	1525	315	250	201
AVM32-70	15		134	133	128	121	112	102	90	1035	490	1525	315	250	201
AVM32-80/2	15		146	145	139	131	121	109	94	1105	490	1595	315	250	204
AVM32-80	18.5		152	151	145	137	127	115	101	1105	490	1595	315	250	204
AVM32-90/2	18.5		166	165	158	150	139	125	109	1175	530	1705	315	250	223
AVM32-90	18.5		173	171	165	157	145	132	117	1175	530	1705	315	250	223
AVM32-100/2	18.5		184	182	175	166	153	138	121	1245	530	1775	315	250	225
AVM32-100	22		191	190	182	173	160	145	128	1245	530	1775	315	250	225
AVM32-110/2	22		205	203	196	184	171	154	135	1315	580	1895	360	275	262
AVM32-110	22		211	209	202	191	178	161	142	1315	580	1895	360	275	262
AVM32-120/2	22		223	222	214	201	186	168	147	1385	580	1965	360	275	264
AVM32-120	30		229	227	220	208	194	176	155	1385	580	1965	360	275	264
AVM32-130/2	30		246	244	235	223	207	187	165	1455	650	2105	400	305	331
AVM32-130	30		251	249	240	228	212	193	172	1455	650	2105	400	305	331
AVM32-140/2	30		265	263	254	239	223	202	178	1525	650	2175	400	305	333
AVM32-140	30		271	269	259	246	229	208	184	1525	650	2175	400	305	333

PERFORMANCE CURVES:



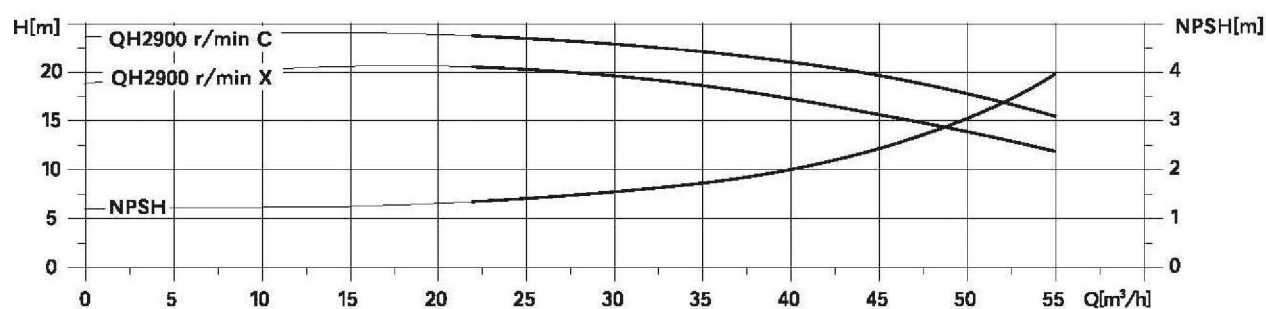
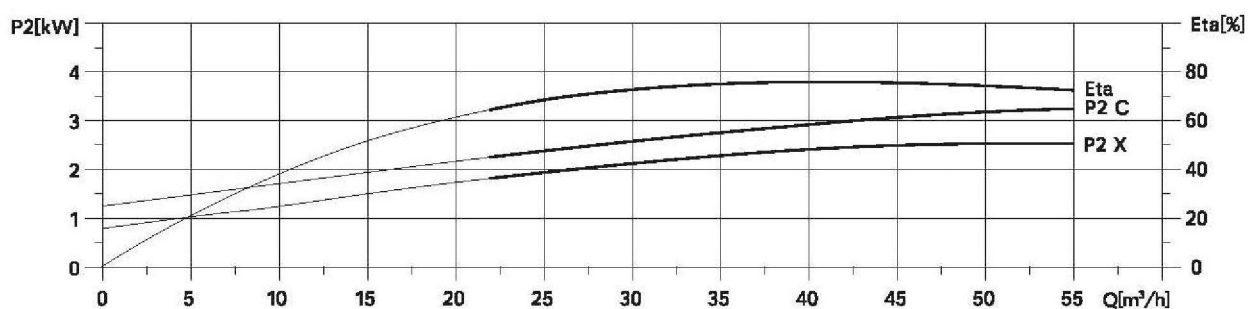
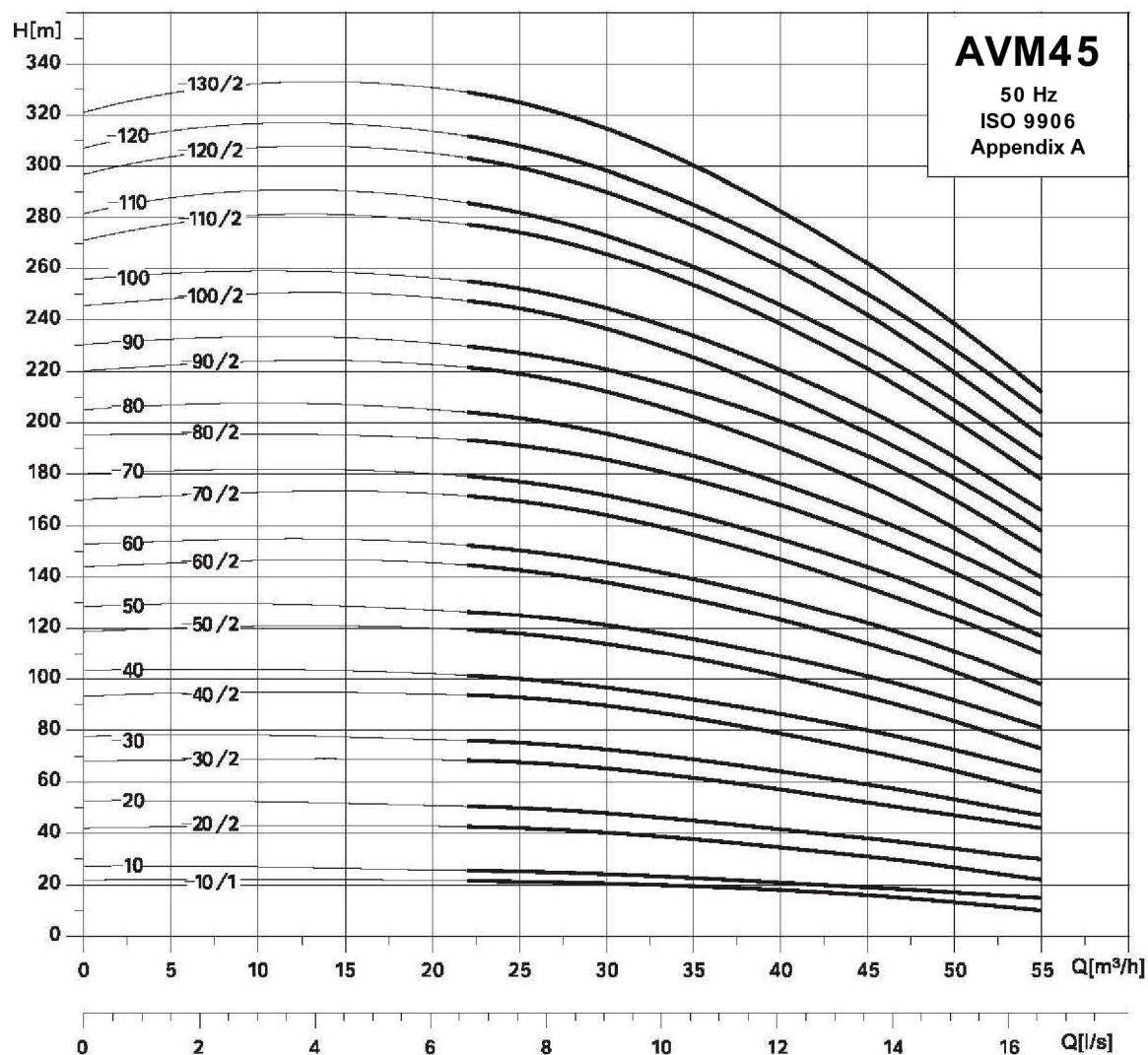
PERFORMANCE PARAMETERS AND DIMENSIONS:

AVM45



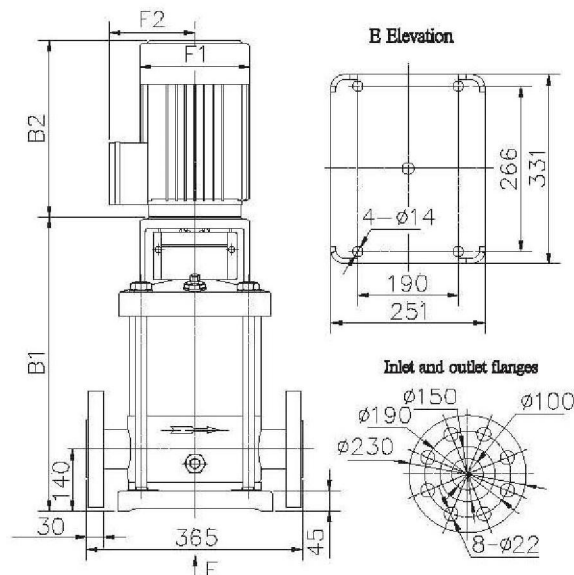
PUMP MODEL	MOTOR POWER		CAPACITY (m ³ /h)								SIZE (mm)					Weight (kg)
	(kW)		22.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	B1	B2	B1+B2	F1	F2	
AVM45-10/1	3	HEAD (m)	22	21	20	18	17	16	13	10	558	325	883	215	180	86
AVM45-10	4		26	25	24	22	21	19	17	15	558	340	898	240	190	92
AVM45-20/2	5.5		42	41	40	37	35	31	27	22	638	390	1028	275	210	102
AVM45-20	7.5		51	50	48	44	41	38	34	30	638	390	1028	275	210	107
AVM45-30/2	11		68	67	65	61	56	52	47	40	828	490	1318	315	250	175
AVM45-30	11		76	75	73	68	64	59	53	47	828	490	1318	315	250	175
AVM45-40/2	15		93	92	90	85	79	72	64	56	908	490	1398	315	250	187
AVM45-40	15		101	100	97	92	87	80	73	64	908	490	1398	315	250	187
AVM45-50/2	18.5		119	118	114	108	101	93	83	73	988	530	1518	315	250	208
AVM45-50	18.5		127	126	121	116	110	101	92	81	988	530	1518	315	250	208
AVM45-60/2	22		144	143	138	131	124	114	103	90	1068	580	1648	360	275	251
AVM45-60	22		152	151	146	140	132	122	112	98	1068	580	1648	360	275	251
AVM45-70/2	30		171	169	165	156	147	136	124	111	1148	650	1798	400	305	315
AVM45-70	30		179	178	172	164	155	144	132	117	1148	650	1798	400	305	315
AVM45-80/2	30		193	191	185	178	168	156	142	125	1228	650	1878	400	305	319
AVM45-80	30		204	202	196	188	177	164	150	133	1228	650	1878	400	305	319
AVM45-90/2	30		221	219	213	203	190	176	159	140	1308	650	1958	400	305	323
AVM45-90	37		230	228	221	211	200	187	170	150	1308	650	1958	400	305	343
AVM45-100/2	37		247	245	236	226	213	196	178	158	1388	650	2038	400	305	347
AVM45-100	37		255	253	245	234	220	205	187	166	1388	650	2038	400	305	347
AVM45-110/2	45		278	274	266	254	239	221	201	178	1468	695	2163	450	325	413
AVM45-110	45		286	283	273	260	246	229	209	186	1468	695	2163	450	325	413
AVM45-120/2	45		304	300	291	278	261	242	220	195	1556	695	2251	450	325	417
AVM45-120	45		312	308	298	285	270	250	228	204	1556	695	2251	450	325	417
AVM45-130/2	45		330	325	316	300	283	262	239	212	1636	695	2331	450	325	421

PERFORMANCE CURVES:



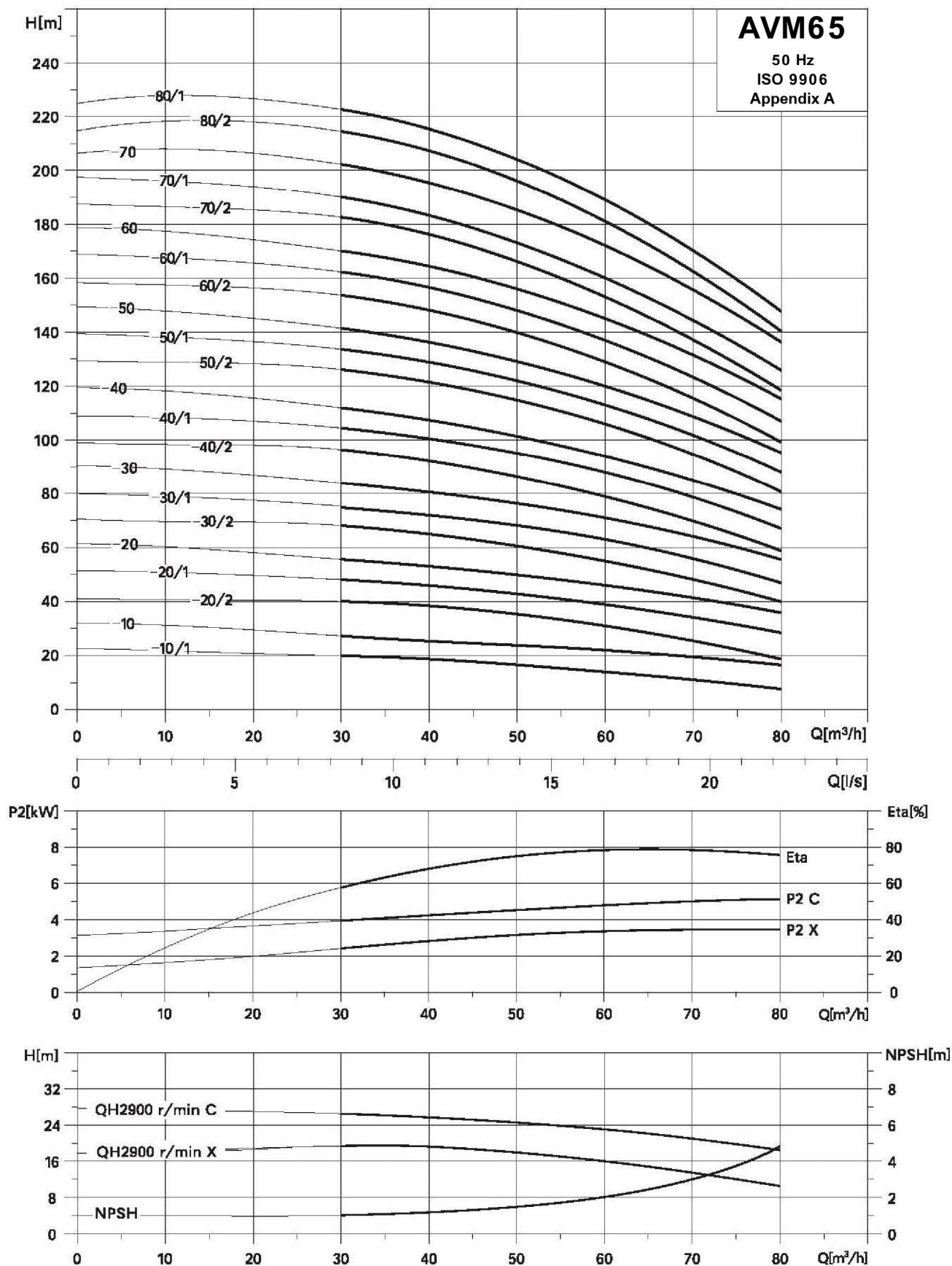
PERFORMANCE PARAMETERS AND DIMENSIONS:

AVM65



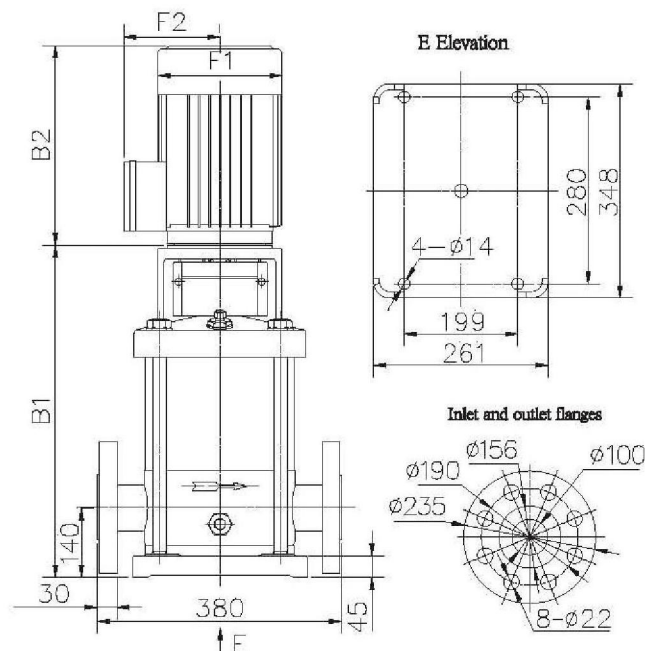
PUMP MODEL	MOTOR POWER		CAPACITY (m ³ /h)						SIZE (mm)					Weight (kg)
	(kW)		30.0	40.0	50.0	60.0	70.0	80.0	B1	B2	B1+B2	F1	F2	
AVM65-10/1	4	HEAD (m)	20	19	16	14	12	8	561	340	901	240	190	105
AVM65-10	5.5		27	25	24	22	19	16	561	390	951	275	210	110
AVM65-20/2	7.5		40	38	36	31	26	18	754	390	1144	275	210	120
AVM65-20/1	11		48	46	43	39	34	28	754	490	1244	315	250	155
AVM65-20	11		55	53	49	46	42	36	754	490	1244	315	250	155
AVM65-30/2	15		68	65	61	55	48	40	836	490	1326	315	250	195
AVM65-30/1	15		75	72	68	63	56	47	836	490	1326	315	250	195
AVM65-30	18.5		84	81	76	71	63	56	836	530	1366	315	250	205
AVM65-40/2	18.5		96	92	86	79	71	59	919	530	1449	315	250	208
AVM65-40/1	22		104	100	95	88	78	67	919	580	1499	360	275	260
AVM65-40	22		112	107	102	94	85	75	919	580	1499	360	275	260
AVM65-50/2	30		126	122	115	106	94	81	1001	650	1651	400	305	345
AVM65-50/1	30		134	129	122	113	102	88	1001	650	1651	400	305	345
AVM65-50	30		141	136	129	120	108	96	1001	650	1651	400	305	345
AVM65-60/2	30		154	148	140	129	116	99	1084	650	1734	400	305	350
AVM65-60/1	37		163	156	148	137	123	107	1084	650	1734	400	305	370
AVM65-60	37		170	164	155	145	131	115	1084	650	1734	400	305	370
AVM65-70/2	37		182	176	166	153	137	118	1166	650	1816	400	305	375
AVM65-70/1	37		190	184	173	160	144	126	1166	650	1816	400	305	375
AVM65-70	45		202	195	185	172	155	136	1166	695	1861	450	325	435
AVM65-80/2	45		214	207	196	181	162	140	1248	695	1943	450	325	440
AVM65-80/1	45		223	215	203	189	170	147	1248	695	1943	450	325	440

PERFORMANCE CURVES:



PERFORMANCE PARAMETERS AND DIMENSIONS:

AVM90



PUMP MODEL	MOTOR POWER		CAPACITY (m ³ /h)								SIZE (mm)					Weight
	(kW)		45.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	B1	B2	B1+B2	F1	F2	(kg)
AVM90-10/1	5.5	HEAD (m)	22	21	20	18	16	14	11	7	571	390	961	275	210	120
AVM90-10	7.5		29	29	27	24	22	20	18	14	571	390	961	275	210	122
AVM90-20/2	11		44	43	41	38	35	30	24	17	773	490	1263	315	250	165
AVM90-20	15		58	56	55	51	47	43	38	32	773	490	1263	315	250	198
AVM90-30/2	18.5		73	72	68	64	58	52	44	35	865	530	1395	315	250	212
AVM90-30	22		87	85	81	76	71	65	58	51	865	580	1445	360	275	265
AVM90-40/2	30		102	100	96	90	84	76	66	55	957	650	1607	400	305	348
AVM90-40	30		116	113	108	101	95	88	80	70	957	650	1607	400	305	348
AVM90-50/2	37		132	130	124	117	109	98	86	73	1049	650	1699	400	305	375
AVM90-50	37		148	144	137	129	121	112	100	88	1049	650	1699	400	305	375
AVM90-60/2	45		165	161	154	145	135	123	109	92	1141	695	1836	450	325	438
AVM90-60	45		179	175	166	157	147	136	123	107	1141	695	1836	450	325	438

PERFORMANCE CURVES:

