



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

AVM, AVMS, AVMN



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VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PRODUCT DATA

INTRODUCTION



FEATURES AND BENEFITS

1. High efficiency
2. Reliability
3. Service friendly
4. Space - saving
5. Suitable for slightly aggressive liquids

APPLICATIONS

1. Washing system
2. Cooling and air conditioning system
3. Water treatment system
4. Fire fighting system
5. Industrial plants
6. Boiler feeding systems

TECHNICAL DATA

Flow "Q"	Max 792 USGPM
Head "H"	Max 886 Ft.
Liquid Temperature (Max)	-40 °F to +356 °F*

ALBANY AVM, AVMS, AVMN pump is a non - self priming, vertical multistage centrifugal pump.

The in - line design enables the pump to be installed in a horizontal one - pipe system where the suction and discharge ports are in the same horizontal plane and have the same pipe dimensions. This design provides a more compact pump design and pipe work. **ALBANY AVM, AVMS, AVMN** pumps come with various pump sizes and various numbers of stages to provide the flow and the pressure required.

ALBANY AVM, AVMS, AVMN pumps are suitable for a variety of applications from pumping of potable water to pumping of chemicals. The pumps are therefore used in a wide diversity of pumping systems where the performance and material of the pump meet specific demands.

The pump unit consists of optimized hydraulics, various types of connections, an outer sleeve, a top and various other parts.

ALBANY AVM, AVMS, AVMN pumps are available in various material versions according to the pumped liquid.

* For Higher Temperature please refer Customize Pump Variants"

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PRODUCT DATA

APPLICATIONS	AVM,AVMS	AVMN
WATER SUPPLY		
Filtration & transfer at waterworks	◆	◇
Distribution from waterwork	◆	◇
Pressure boosting in mains	◆	◇
Pressure boosting in high-rise building, hotels, hospitals etc.	◆	◇
Pressure boosting for industrial water supply	◆	◇
INDUSTRY		
<u>Pressure Boosting In-</u>		
Process water system	◆	◆
Washing & cleaning system	◆	◆
Vehicle washing tunnel	◆	◇
Fire fighting tunnel	◆	
<u>Liquid Transfer In-</u>		
Cooling & air-conditioning	◆	◇
Boiler feed & condensate system	◆	◇
Machine tool	◆	◆
Aqua farming	◆	◇
<u>Transfer Of-</u>		
Oils & alcohols	◆	◆
Acids & alkalis		◆
Glycol & coolents	◆	
WATER TREATMENT		
Ultra-filtration system		◆
Reverse osmosis system		◆
Softening ionising		◆
Distillation system		◆
Separators	◆	◆
Swimming baths		◆
IRRIGATION		
Field irrigation	◆	◇
Sprinkler irrigation	◆	◇
Drip-feed irrigation	◆	◇

◆ Recommended version

◇ Alternative version

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PRODUCT RANGE

Range	AVM, AVMS AVMN 1s	AVM, AVMS AVMN1	AVM, AVMS AVMN3	AVM, AVMS AVMN5	AVM, AVMS, AVMN10	AVM, AVMS, AVMN 15	AVM, AVMS, AVMN 20	AVM, AVMN 32	AVM, AVMN 45	AVM, AVMN 64	AVM, AVMN 90	AVM 125	AVM 155
Nominal flow rate (US GPM)	4.4	5.2	15.8	26.4	52.8	79.2	105.6	167.3	237.7	339	475.5	616.4	792.5
Temperature range (°F)	4 ° F to +250 ° F							-22 ° F to +250 ° F					
Temperature range (°F) - on request	-40 ° F to +356 ° F												-
Max working pressure (psi)	333.5	348	348	348	362.5	348	304.5	391.5	377	261	232	275.5	232
Max working pressure (psi) on request	-	696	609	696	681.5	681.5	681.5	580	580	522	478.5	536.5	449.5
Max pump efficiency (%)	35	49	59	67	70	72	72	76	78	79	80	74	70
Flow rate (US GPM)	1.7-5.7	3.5-12.7	6.1-23.7	13.2-44.9	26.4-70.4	44-127.6	57.2-154.1	79.2-211.3	114.4-308.2	158.2-449	264.1-642.4	264.1-704	330-792
Motor power (Hp)	0.5-2	0.5-4	0.5-5.5	0.75-7.5	1-15	2-25	3-25	3-40	7.5-60	10-60	15-60	15-100	15-100
Max. pump pressure (ft)	745	784	787	712	817	800	699	886	843	617	548	640	531
AVM ANSI flange size	1.25"	1.25"	1.25"	1.25"	2.0"	2.0"	2.0"	2.5"	3.0"	4.0"	4.0"	5.0"	5.0"
ANSI flange size - on request	-	-	-	-	-	-	-	3.0"	4.0"	5.0"	5.0"	6.0"	6.0"
ANSI flange class	250lb	250lb	250lb	250lb	250lb	250lb	250lb	125 / 250 lb	125 / 250 lb	125 / 250 lb	125 / 250 lb	125 / 250 lb	125 / 250 lb
AVMS ANSI flange size	1.25"	1.25"	1.25"	1.25"	2.0"	2.0"	2.0"	2.5"	3.0"	4.0"	4.0"	5.0"	5.0"
ANSI flange class	300 lb	300 lb	300 lb	300 lb	300 lb	300lb	300lb	-	-	-	-	-	-
AVMN ANSI flange size	1.25"	1.25"	1.25"	1.25"	2.0"	2.0"	2.0"	2.5"	3.0"	4.0"	4.0"	5.0"	5.0"
ANSI flange size - on request	-	-	-	-	-	-	-	3.0"	-	-	5.0"	6.0"	6.0"
ANSI flange class	300 lb	300lb	300lb	300lb	300lb	300lb	300lb	150 / 300 lb	150 / 300 lb	150 / 300 lb	150 / 300 lb	150 / 300 lb	150 / 300 lb

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TYPE OF KEYS & CONSTRUCTION

Example	AVMN	-45	-(S)	-2	-2
Type range (AVM, AVMS, AVMN)					
Flow rate (m ³ / hr)					
All impellers with reduced Diameter only (AVM, AVMS, AVMN 1s)					
Number of impellers					
Number of reduced diameter					
Impellers (AVM, AVMN 32, 45, 64, 90, 125 & 155)					

Shaft seal description Max. temp. range

1. HQQE 0-ring (cartridge) (balanced seal), SiC/SiC, EPDM
2. HBQE 0-ring (cartridge) (balanced seal), Carbon/SiC, EPDM
3. HQQV 0-ring (cartridge) (balanced seal), SiC/SiC, FKM
4. HUUUV 0-ring (cartridge) (balanced seal), Cemented tungsten carbide/etc, FKM

In case of extreme temperatures see section customize pump variants.

- low temperatures down to -40 °F or
- high temperatures upto +356 °F.

[°F]

[-40 °F to +248 °F]

[+32 °F to +248 °F]

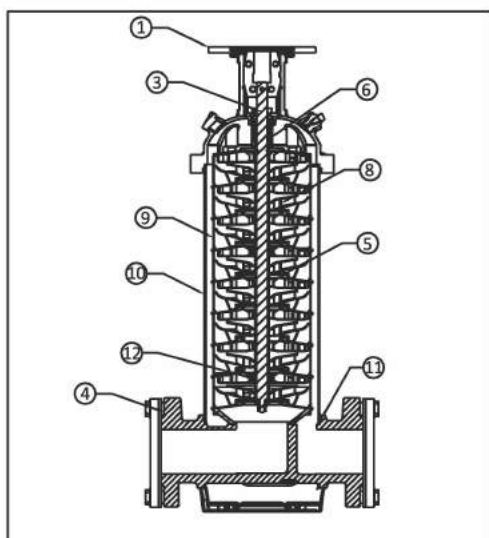
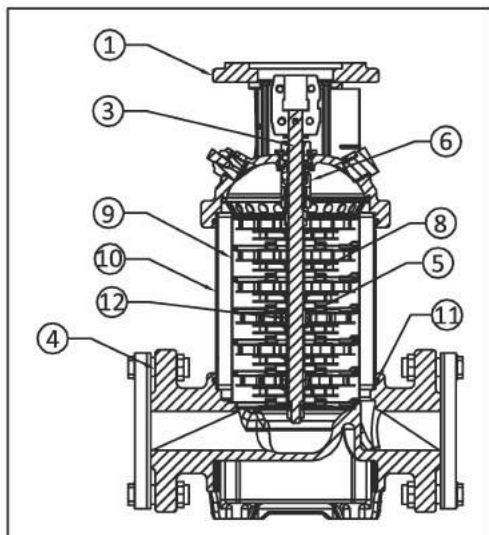
[-4 °F to +194 °F]

[+32 °F to +194 °F]

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TYPE OF KEYS & CONSTRUCTION

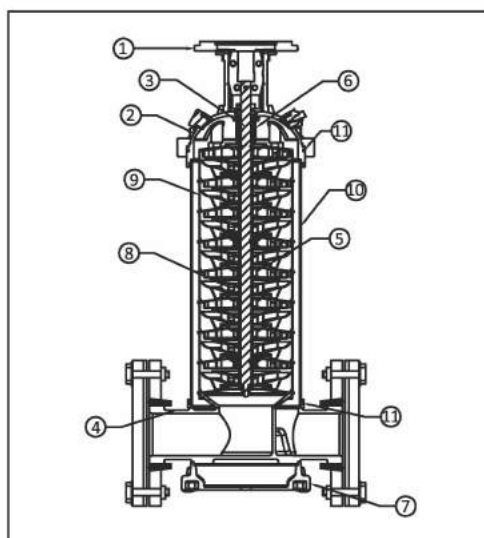
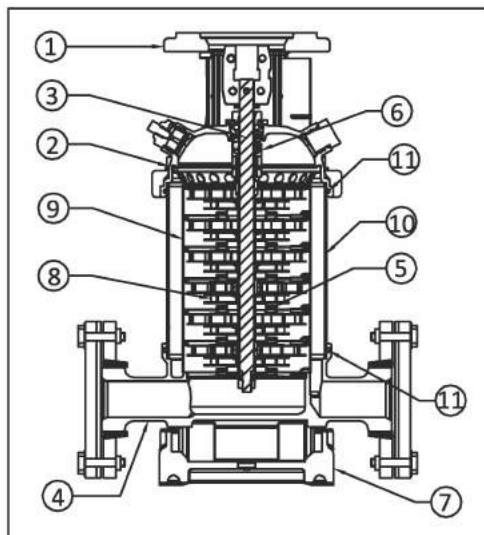
Sectional drawing AVM
1s, 3, 5, 10, 15 & 20



Materials AVM

Pos	Designation	Material
1	Pump Head	Cast Iron
3	Pump Shaft	Duplex
4	Pump Base	Cast Iron
5	Neck Ring	PTFE
6	Mech. Seal	Cartridge Type
8	Impeller	SS304
9	Chamber	SS304
10	Outer Sleeve	SS304
11	O-ring	EPDM/FKM
12	Radial bush	TUNGSTEN

Sectional drawing AVMS, AVMN
1s, 3, 5, 10, 15 & 20



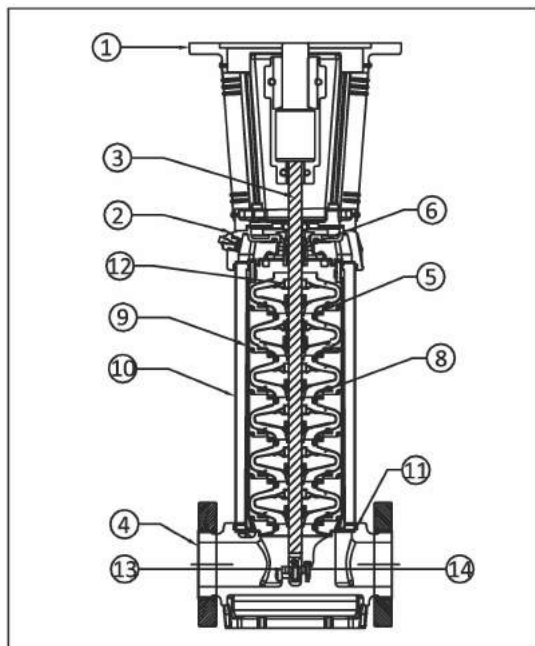
Materials AVMS, AVMN

Pos	Designation	Material of AVMS	Material of AVMN
1	Pump Head	Cast Iron	
2	Pump Head Cover	SS304	SS316
3	Pump Shaft	Duplex	Duplex
4	Pump Base	SS304	SS316
5	Neck Ring	PTFE	
6	Mech. Seal	Cartridge Type	
7	Base Plate	Cast Iron	
8	Impeller	SS304	SS316
9	Chamber	SS304	SS316
10	Outer Sleeve	SS304	SS316
11	O-ring	EPDM/FKM	
12	Radial bush	TUNGSTEN	

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TYPE OF KEYS & CONSTRUCTION

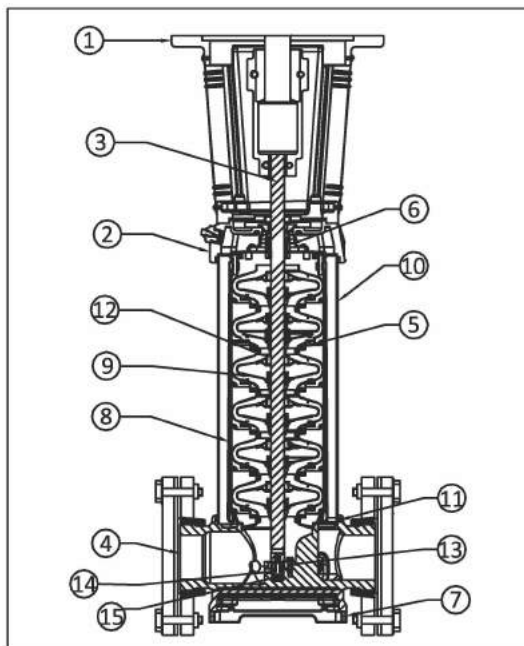
Sectional drawing AVM
32, 45, 64 & 90



Materials AVM

Pos	Designation	Material
1	Motor Stool	Cast Iron
2	Pump Head	Cast Iron
3	Pump Shaft	Duplex
4	Pump Base	Cast Iron
5	Neck Ring	PTFE
6	Mech. Seal	Cartridge Type
8	Impeller	SS304
9	Chamber	SS304
10	Outer Sleeve	SS304
11	O-ring	EPDM/FKM
12	Chamber bush	PTFE Carbon Graphite Filled
13	Pump Base Bush	Tungsten
14	Bearing Ring Rotating	Tungsten

Sectional drawing AVMS, AVMN
32, 45, 64 & 90



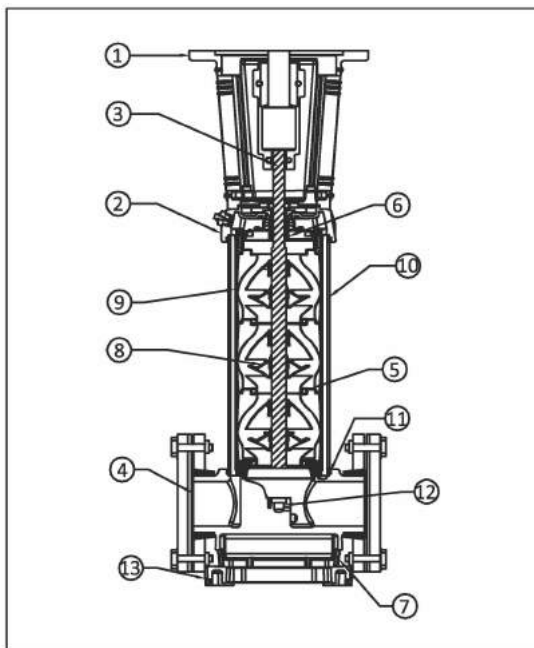
Materials AVMS, AVMN

Pos	Designation	Material of AVMS	Material of AVMN
1	Motor Stool	Cast Iron	
2	Pump Head	SS304	SS316
3	Pump Shaft	DUPLEX	SS316
4	Pump Base	SS304	SS316
5	Neck Ring	PTFE	
6	Mech. Seal	Cartridge Type	
7	Base Plate	Cast Iron	
8	Impeller	SS304	SS316
9	Chamber	SS304	SS316
10	Outer Sleeve	SS304	SS316
11	O-ring	EPDM/FKM	
12	Chamber bush	PTFE Carbon Graphite	
13	Bearing Ring	Filled Tungsten Carbide	
14	Pump Base Bush	Tungsten	
15	Bearing Ring Rotating	Tungsten	

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TYPE OF KEYS & CONSTRUCTION

Sectional drawing AVM
125&155



Materials AVM 125 & 155

Pos	Designation	Material
1	Motor Stool	Cartridge Type
2	Pump Head	Cast Iron
3	Pump Shaft	Duplex
4	Pump Base	Cast Iron
5	Neck Ring	PTFE
6	Mech. Seal	Cartridge Type
7	Impeller	SS304
8	Chamber	SS304
9	Outer Sleeve	SS304
10	O-ring	EPDM/FKM
11	Chamber bush	PTFE carbon graphite filled
12	Thrust Bearing Assly	-
13	Pump Base Plate	Cast Iron

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

OPERATING AND INLET PRESSURES

Maximum Inlet Pressure

The following table shows the maximum permissible inlet pressure. However, the current inlet pressure+ the pressure against a closed valve must always be lower than the maximum permissible operating pressure.

If the maximum permissible operating pressure is exceeded, the conical bearing in the motor may be damaged and the life of the shaft seal reduced.

MAXIMUM INLET PRESSURE 60Hz

AVM, AVMS, AVMN 1S		
1S-2	1S-27	145 (psi)
AVM, AVMS, AVMN 1		
1-2	1-25	145 (psi)
1-27		217 (psi)
AVM, AVMS, AVMN 3		
3-2	3-17	145 (psi)
3-19	3-25	217 (psi)
AVM, AVMS, AVMN 5		
5-2	5-9	145 (psi)
5-10	5-24	217 (psi)
AVM, AVMS, AVMN 10		
10-1	10-5	116 (psi)
10-6	10-17	145 (psi)
AVM, AVMS, AVMN 15		
15-1	15-2	116 (psi)
15-3	15-12	145 (psi)
AVM, AVMS, AVMN 20		
20-1		116 (psi)
20-2	20-10	145 (psi)
AVM, AVMN 32		
32-1-1	32-2	58 (psi)
32-3-2	32-6	145 (psi)
31-7-2	32-11-2	217 (psi)
AVM, AVMN 45		
45-1-1	45-1	58 (psi)
45-2-2	45-3	145 (psi)
45-4-2	45-8-1	217 (psi)
AVM, AVMN 64		
64-1-1		58 (psi)
64-1	64-2-1	145 (psi)
64-2	64-5-2	217 (psi)
AVM, AVMN 90		
90-1-1	90-1	145 (psi)
90-2-2	90-4-1	217 (psi)
AVM, AVMN 120		
125-1-1	125-1	145 (psi)
125-2-2	125-3	217 (psi)
125-4-1	125-5-1	290 (psi)
AVM, AVMN 150		
155-1-1		145 (psi)
155-1	155-2	217 (psi)
155-3-2	155-4-1	290 (psi)

Electric - Motor

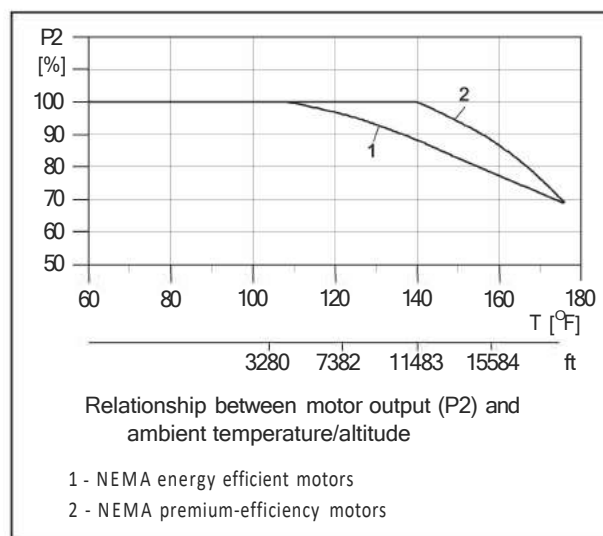
Full - enclosed two pole standard motor

Mounting designation	NEMA
Insulation class	F
Enclosure class	TEFC- Totally Enclose Fan Cooled
Standard voltages 60 Hz	1x115/208-230 V 3x208-230/460 V

Ambient Temperature

If the ambient temperature exceeds the maximum temperature limits of pump or the pump is installed at an altitude exceeding the altitude values in the chart below, the must not be fully loaded due to the risk of overheating.

Overheating may result from excessive ambient temperatures or the low density and consequently low cooling effect of the air at high altitudes. In such cases it may be necessary to use a motor with a higher rated output (P2).



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

CONVERSION

CONVERSION TABLE

Volume

1 Imperial Gallon (UK)	-	4.546 Litres
1 U.S. Gallon	-	3.785 Litres

Discharge Rate

1 Imperial Gallon/Minute-	4.546 LPM	-	10 lbs of water
1 U.S. Gallon/Minute	-	3.785 LPM	
1m ³ /hr	-	1000 LPH	
1cu feet	-	28.32 Litres	- 62.4 lbs of water
1m ³ /hr	-	16.67 LPM	
1Litre/Second	-	60 LPM	

Pressure

1Atmospheric Pressure	-	1.033 kg/cm ²
	-	14.7 lb/in ² (PSI)
	-	1.03 kg/cm ²
	-	33.9 feet of wc
1 kg/cm ²	-	10 mwc
	-	14.22 PSI
	-	1 bar

Power

1 HP(SI)	-	0.746 kW
	-	746 W
1 HP (Metric)	-	0.736 kW
	-	736 W
1 kW	-	1000 W
1 Unit	-	1 kW or 1000 W

Length

1 inch	-	25.4 mm
	-	2.54 cm
1 meter	-	39.36 inch
	-	3.281 feet
	-	1000 mm
1 foot	-	304.8 mm
	-	12 inch

Conversion of centigrade to Fahrenheit degree.

$$F = (9C/5) + 32$$

Conversion of Fahrenheit to centigrade degree.

$$C = (F - 32) 5/9$$

Speed (N)

$$120 \times \text{frequency (f)}$$

$$\text{RPM } N_s = \dots\dots\dots$$

$$\text{No. of pole pairs (p)}$$

Where,

RPM- Revolution per Minute

P - No. of pole pairs

F - Frequency (Hz)

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SELECTION AND SIZING

SELECTION OF PUMP

Minimum inlet pressure - NPSH

Calculation of the inlet pressure "H" is recommended when...

- The liquid temperature is high
- The flow is significantly higher than the rated flow
- Water is drawn from depths
- Water is drawn through long pipes
- Inlet conditions are poor

To avoid cavitations, make sure that there is a minimum pressure on the suction side of pump. The maximum suction lift "H" in Feet head can be calculated as follows:

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

P_b = Barometric pressure in Feet.
(Barometric pressure can be sent to 33.9 Feet).
In closed systems, p_b indicates the system pressure in Feet.

NPSH = Net Positive Suction Head in Feet head.
(To be read from the NPSH curve at the highest flow the pump will be delivering.)

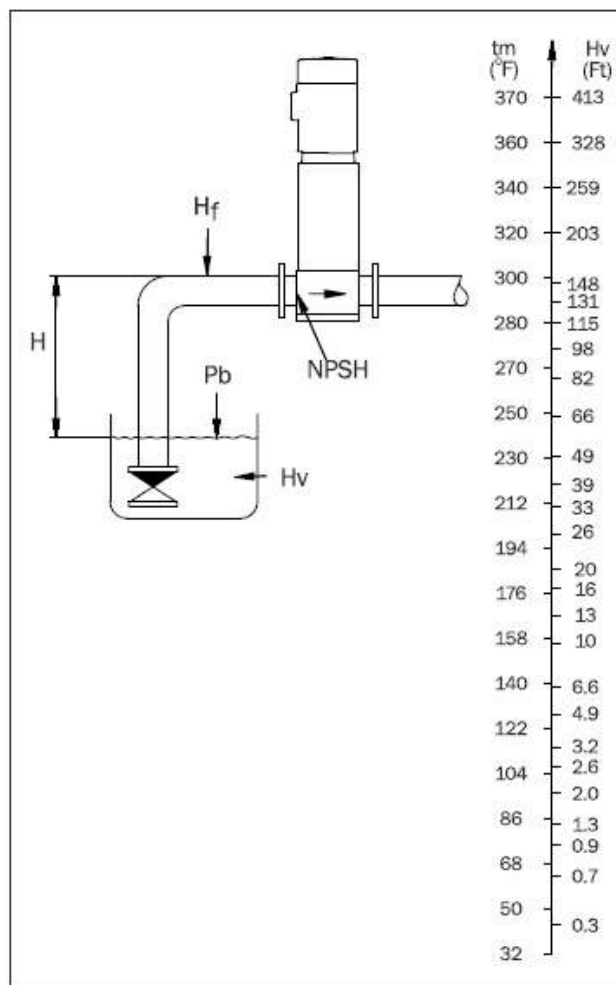
H_f = Friction loss in suction pipe in Feet head.
(At the highest flow the pump will be delivering.)

H_v = Vapor pressure in Feet head.
(To be read from the vapor pressure scale.
"Hv" depends on the liquid temperature "Tm").

H_s = Safety margin = minimum 2 Feet head.

If the "H" calculated is positive, the pump can operate at a suction lift of maximum "H" Feet head.

If the "H" calculated is negative, an inlet pressure of minimum "H" Feet head is required.

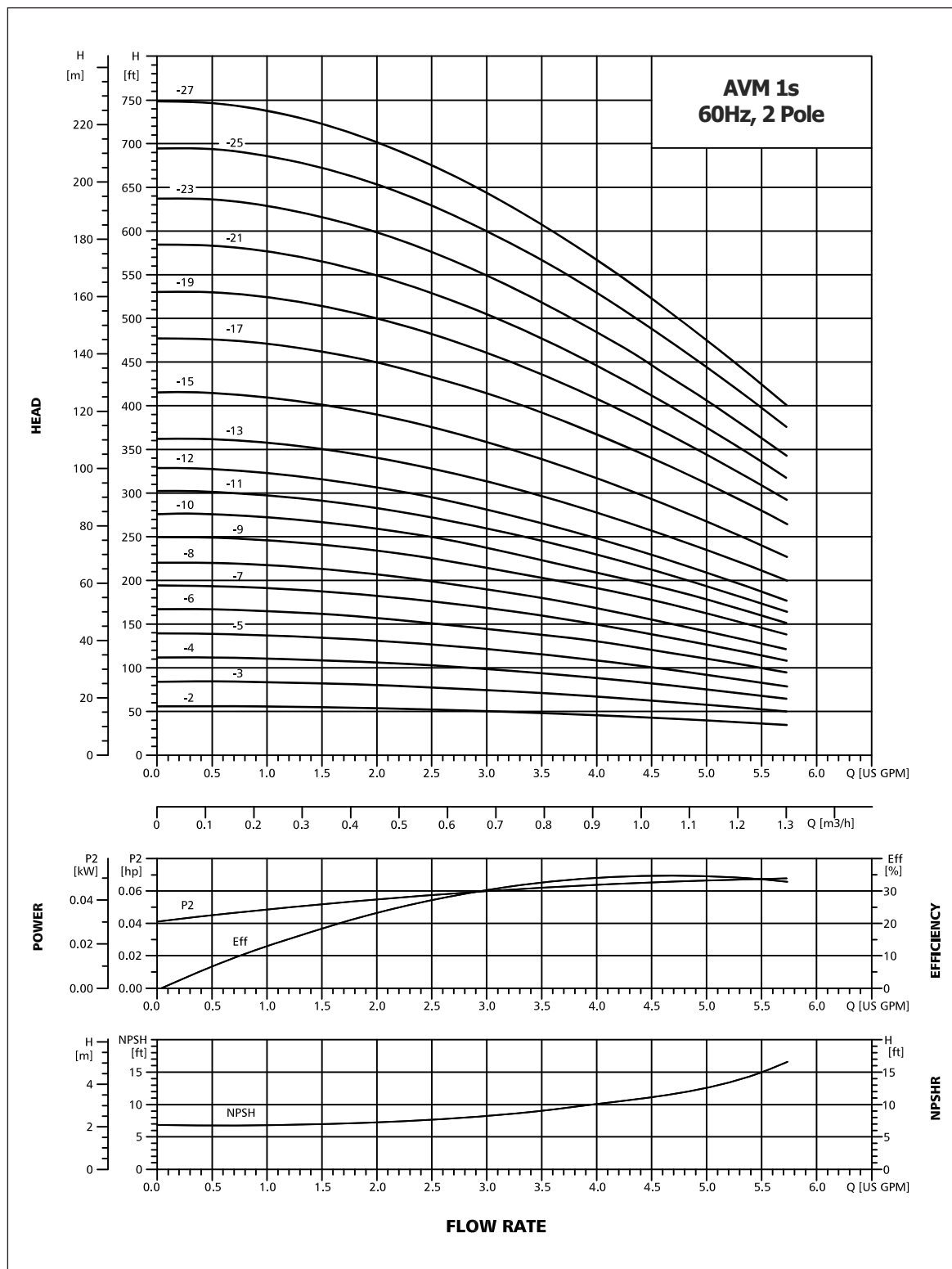


Note: In order to avoid cavitation never, select a pump whose duty point lies to the right of the NPSH curve.

Always check the NPSH value of the pump at the highest possible flow.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

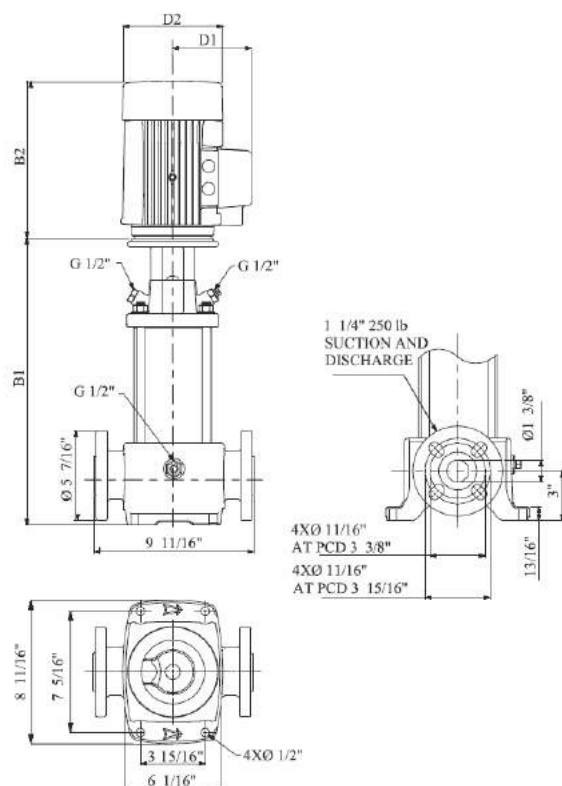


VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE

*Dimensions and Weight



Model	Size in Inch					Weight (lbs)
	Ph.	B1	B1+B2	D1	D2	
AVM 1s-2	1	12.09	21.38	6.19	5.18	64
	3	12.09	19.53	5.55	4.57	62
AVM 1s-3	1	12.09	21.38	6.19	5.18	64
	3	12.09	19.53	5.55	4.57	62
AVM 1s-4	1	12.80	22.09	6.19	5.18	65
	3	12.80	20.24	5.55	4.57	63
AVM 1s-5	1	13.50	22.79	6.19	5.18	66
	3	13.50	20.94	5.55	4.57	64
AVM 1s-6	1	14.21	23.50	6.19	5.18	70
	3	14.21	21.65	5.55	4.57	65
AVM 1s-7	1	14.92	24.21	6.19	5.18	71
	3	14.92	22.36	5.55	4.57	65
AVM 1s-8	1	15.63	24.92	6.19	5.18	72
	3	15.63	23.07	5.55	4.57	66
AVM 1s-9	1	16.34	26.25	6.19	5.18	77
	3	16.34	23.78	5.55	4.57	68
AVM 1s-10	1	17.05	26.96	6.19	5.18	78
	3	17.05	24.49	5.55	4.57	69
AVM 1s-11	1	17.76	27.67	6.19	5.18	79
	3	17.76	25.20	5.55	4.57	70
AVM 1s-12	1	18.46	28.37	6.19	5.18	79
	3	18.46	25.90	5.55	4.57	70
AVM 1s-13	1	19.17	30.36	7.19	5.73	96
	3	19.17	26.61	5.55	4.57	71
AVM 1s-15	1	20.59	31.78	7.19	5.73	97
	3	20.59	28.03	5.55	4.57	73
AVM 1s-17	1	22.01	33.69	7.19	5.73	102
	3	22.01	30.63	5.55	4.57	79
AVM 1s-19	1	23.43	35.11	7.19	5.73	104
	3	23.43	32.05	5.55	4.57	81
AVM 1s-21	1	24.84	36.52	7.19	5.73	106
	3	24.84	33.46	5.55	4.57	82
AVM 1s-23	1	26.26	37.94	7.19	5.73	107
	3	26.26	34.88	5.55	4.57	84
AVM 1s-25	1	27.68	40.24	7.19	5.73	120
	3	27.68	38.09	7.01	4.33	111
AVM 1s-27	1	29.09	41.65	7.19	5.73	122
	3	29.09	40.31	7.01	4.33	113

* All dimension & weight may deviate up to ±0.5 inch & 3 lbs.

• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

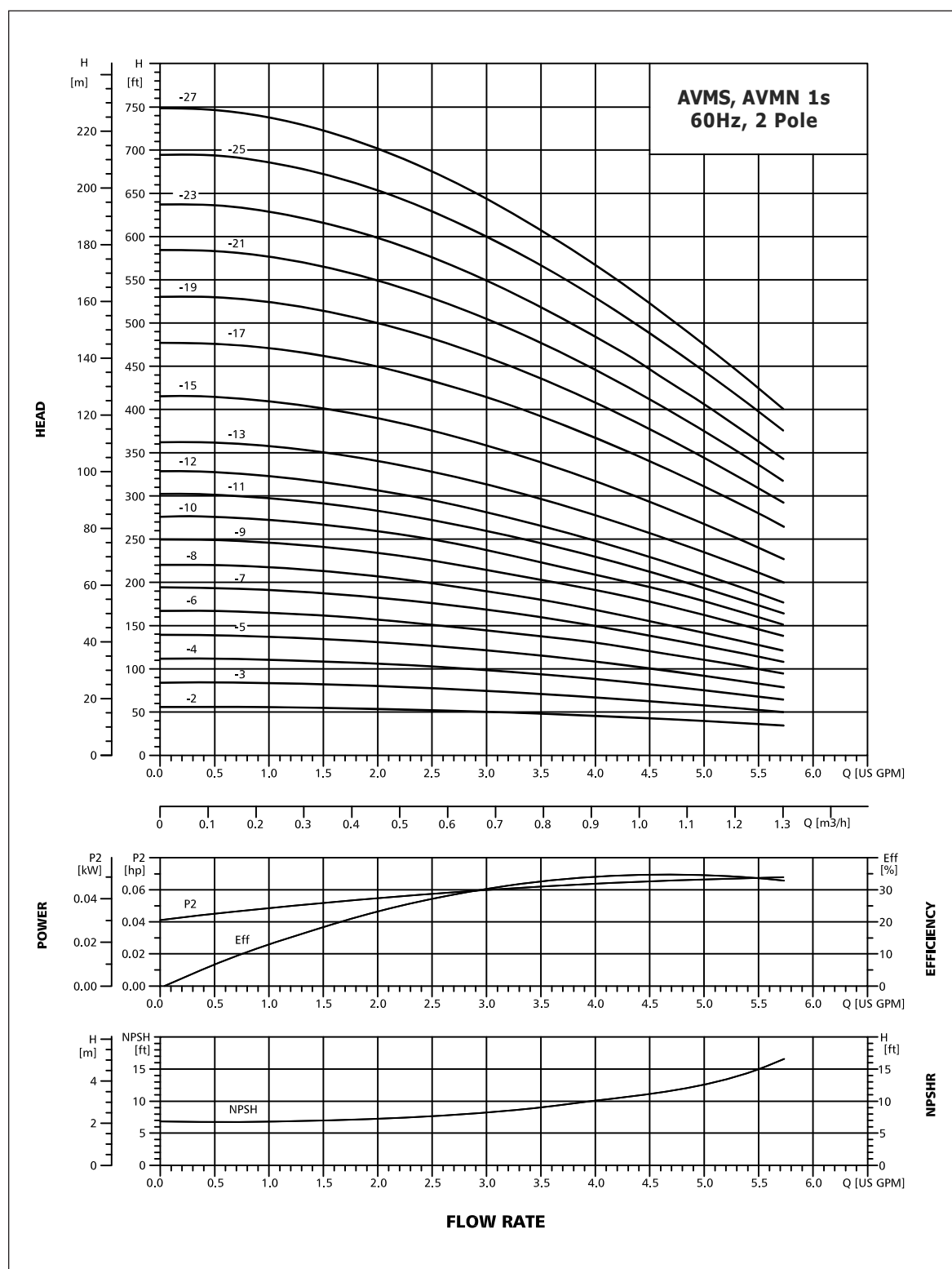
PERFORMANCE TABLE

Model	HP	m ³ /h	0	0.1	0.3	0.5	0.7	0.9	1.1	1.3
		USGPM	0	0.4	1.3	2.2	3.1	4.0	4.8	5.7
AVM1s-2	1/3	Head (Ft.)	56	54	53	52	49	46	43	33
AVM1s-3	1/3		85	83	82	79	75	69	56	49
AVM 1s-4	1/3		112	110	108	105	98	89	79	66
AVM 1s-5	1/3		138	136	135	128	121	108	92	79
AVM1s-6	1/2		167	165	161	154	144	131	115	92
AVM 1s-7	1/2		194	192	187	180	167	151	131	108
AVM1s-8	1/2		220	218	213	203	187	171	144	118
AVM1s-9	3/4		249	247	243	230	213	190	167	138
AVM1s-10	3/4		276	274	269	253	233	210	194	148
AVM1s-11	3/4		302	300	295	279	256	230	197	164
AVM1s-12	3/4		328	326	318	302	279	249	217	177
AVM 1s-13	1		361	359	354	335	312	279	243	200
AVM 1s-15	1		413	411	404	384	354	318	276	230
AVM 1s-17	1 1/2		476	474	466	443	410	371	318	262
AVM 1s-19	1 1/2		528	526	515	492	456	410	354	292
AVM 1s-21	1 1/2		584	582	571	541	499	449	384	315
AVM 1s-23	1 1/2		636	634	620	591	545	486	417	344
AVM 1s-25	2		696	694	676	643	594	531	459	374
AVM 1s-27	2		745	743	728	692	636	571	489	400

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

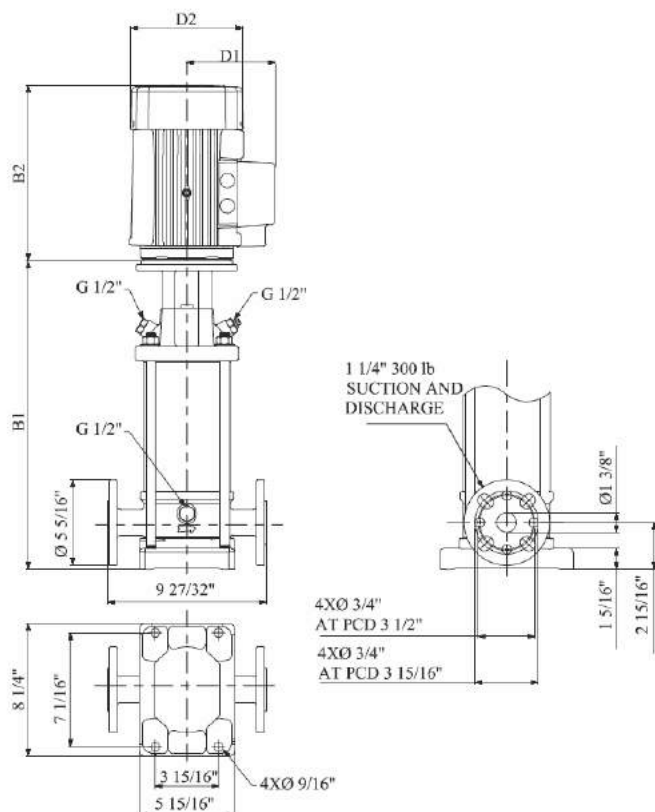


VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE

*Dimensions and Weight



Model	Size in Inch					Weight (lbs)
	Ph.	B1	B1+B2	D1	D2	
AVMS, AVMN 1S-2	1	12.09	21.38	6.19	5.18	64
	3	12.09	19.53	5.55	4.57	62
AVMS, AVMN 1S-3	1	12.09	21.38	6.19	5.18	64
	3	12.09	19.53	5.55	4.57	62
AVMS, AVMN 1S-4	1	12.80	22.09	6.19	5.18	65
	3	12.80	20.24	5.55	4.57	63
AVMS, AVMN 1S-5	1	13.50	22.79	6.19	5.18	66
	3	13.50	20.94	5.55	4.57	64
AVMS, AVMN 1S-6	1	14.21	23.50	6.19	5.18	70
	3	14.21	21.65	5.55	4.57	65
AVMS, AVMN 1S-7	1	14.92	24.21	6.19	5.18	71
	3	14.92	22.36	5.55	4.57	65
AVMS, AVMN 1S-8	1	15.63	24.92	6.19	5.18	72
	3	15.63	23.07	5.55	4.57	66
AVMS, AVMN 1S-9	1	16.34	26.25	6.19	5.18	77
	3	16.34	23.78	5.55	4.57	68
AVMS, AVMN 1S-10	1	17.05	26.96	6.19	5.18	78
	3	17.05	24.49	5.55	4.57	69
AVMS, AVMN 1S-11	1	17.76	27.67	6.19	5.18	79
	3	17.76	25.20	5.55	4.57	70
AVMS, AVMN 1S-12	1	18.46	28.37	6.19	5.18	79
	3	18.46	25.90	5.55	4.57	70
AVMS, AVMN 1S-13	1	19.17	30.36	7.19	5.73	96
	3	19.17	26.61	5.55	4.57	71
AVMS, AVMN 1S-15	1	20.59	31.78	7.19	5.73	97
	3	20.59	28.03	5.55	4.57	73
AVMS, AVMN 1S-17	1	22.01	33.69	7.19	5.73	102
	3	22.01	30.63	5.55	4.57	79
AVMS, AVMN 1S-19	1	23.43	35.11	7.19	5.73	104
	3	23.43	32.05	5.55	4.57	81
AVMS, AVMN 1S-21	1	24.84	36.52	7.19	5.73	106
	3	24.84	33.46	5.55	4.57	82
AVMS, AVMN 1S-23	1	26.26	37.94	7.19	5.73	107
	3	26.26	34.88	5.55	4.57	84
AVMS, AVMN 1S-25	1	27.68	40.24	7.19	5.73	120
	3	27.68	38.09	7.01	4.33	111
AVMS, AVMN 1S-27	1	29.09	41.65	7.19	5.73	122
	3	29.09	40.31	7.01	4.33	113

* All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

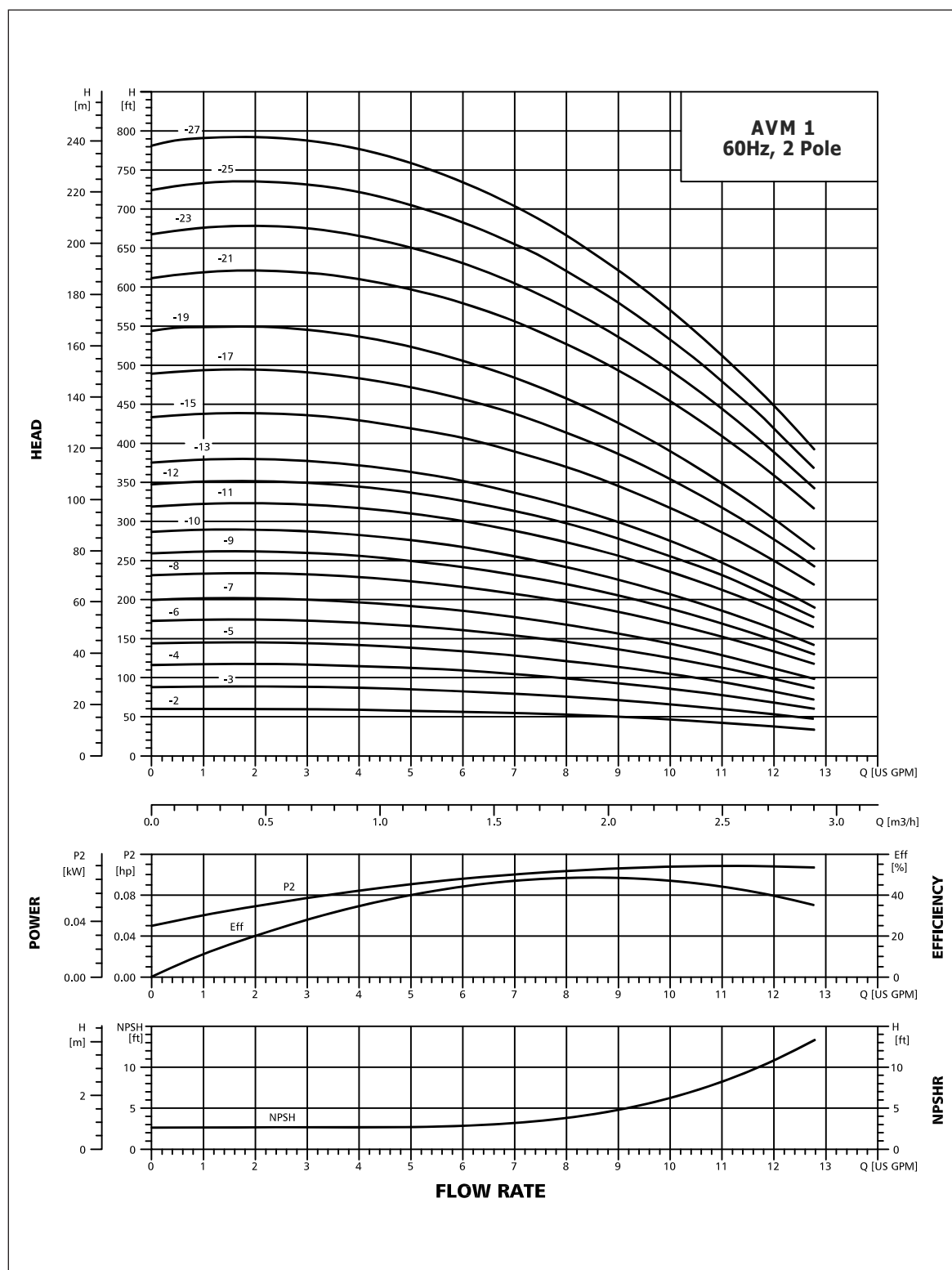
PERFORMANCE TABLE

Model	HP	m ³ / h	0	0.1	0.3	0.5	0.7	0.9	1.1	1.3
		US GPM	0	0.4	1.3	2.2	3.1	4.0	4.8	5.7
AVMS/AVMN, 1s-2	1/3	Head (Ft.)	56	54	53	52	49	46	43	33
AVMS/AVMN, 1s-3	1/3		85	83	82	79	75	69	56	49
AVMS/AVMN, 1s-4	1/3		112	110	108	105	98	89	79	66
AVMS/AVMN, 1s-5	1/3		138	136	135	128	121	108	92	79
AVMS/AVMN, 1s-6	1/2		167	165	161	154	144	131	115	92
AVMS/AVMN, 1s-7	1/2		194	192	187	180	167	151	131	108
AVMS/AVMN, 1s-8	1/2		220	218	213	203	187	171	144	118
AVMS/AVMN, 1s-9	3/4		249	247	243	230	213	190	167	138
AVMS/AVMN, 1s-10	3/4		276	274	269	253	233	210	194	148
AVMS/AVMN, 1s-11	3/4		302	300	295	279	256	230	197	164
AVMS/AVMN, 1s-12	3/4		328	326	318	302	279	249	217	177
AVMS/AVMN, 1s-13	1		361	359	354	335	312	279	243	200
AVMS/AVMN, 1s-15	1		413	411	404	384	354	318	276	230
AVMS/AVMN, 1s-17	11/2		476	474	466	443	410	371	318	262
AVMS/AVMN, 1s-19	11/2		528	526	515	492	456	410	354	292
AVMS/AVMN, 1s-21	11/2		584	582	571	541	499	449	384	315
AVMS/AVMN, 1s-23	11/2		636	634	620	591	545	486	417	344
AVMS/AVMN, 1s-25	2		696	694	676	643	594	531	459	374
AVMS/AVMN, 1s-27	2		745	743	728	692	636	571	489	400

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

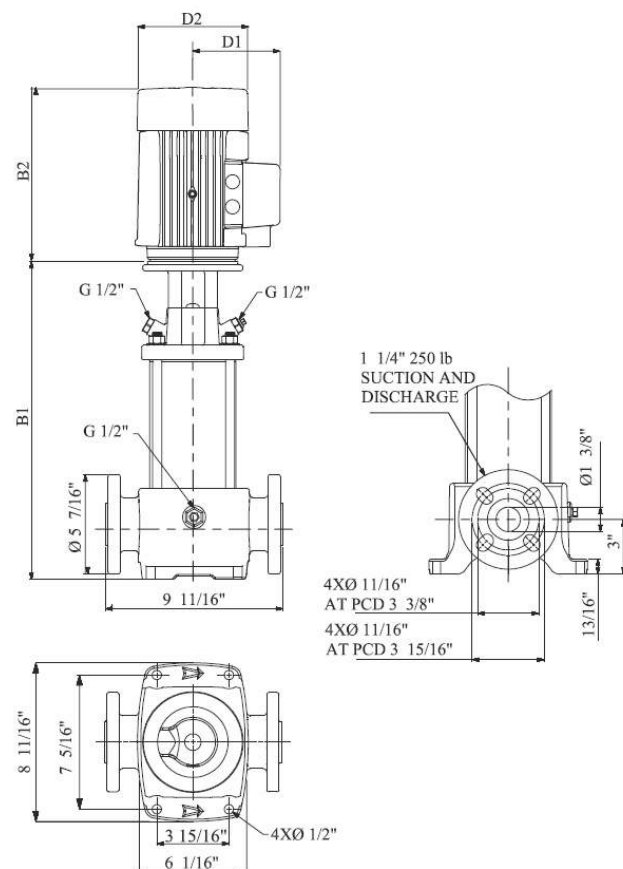
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 1-2	1	11.97	21.26	6.19	5.18	69
	3	11.97	19.41	5.55	4.57	67
AVM 1-3	1	11.97	21.26	6.19	5.18	69
	3	11.97	19.41	5.55	4.57	67
AVM 1-4	1	12.68	21.97	6.19	5.18	73
	3	12.68	20.12	5.55	4.57	68
AVM 1-5	1	13.39	22.68	6.19	5.18	75
	3	13.39	20.83	5.55	4.57	63
AVM 1-6	1	14.09	24.00	6.19	5.18	80
	3	14.09	21.53	5.55	4.57	71
AVM 1-7	1	14.80	24.71	6.19	5.18	81
	3	14.80	22.24	5.55	4.57	72
AVM 1-8	1	15.51	26.70	7.19	5.73	93
	3	15.51	22.95	5.55	4.57	72
AVM 1-9	1	16.22	27.41	7.19	5.73	94
	3	16.22	23.66	5.55	4.57	74
AVM 1-10	1	16.93	28.61	7.19	5.73	95
	3	16.93	25.55	5.55	4.57	74
AVM 1-11	1	17.64	29.32	7.19	5.73	102
	3	17.64	26.26	5.55	4.57	76
AVM 1-12	1	18.35	30.03	7.19	5.73	103
	3	18.35	26.97	5.55	4.57	77
AVM 1-13	1	19.06	30.74	7.19	5.73	104
	3	19.06	27.68	5.55	4.57	78
AVM 1-15	1	20.47	33.03	7.19	5.73	114
	3	20.47	31.69	7.01	4.33	104
AVM 1-17	1	21.89	34.45	7.19	5.73	116
	3	21.89	33.11	7.01	4.33	106
AVM 1-19	1	24.41	39.06	8.60	6.87	155
	3	24.41	37.64	7.01	4.33	123
AVM 1-21	1	25.83	40.48	8.60	6.87	158
	3	25.83	39.06	7.01	4.33	125
AVM 1-23	1	27.24	41.89	8.60	6.87	159
	3	27.24	40.87	7.01	4.33	130
AVM 1-25	1	28.66	43.31	8.60	6.87	161
	3	28.66	41.89	7.01	4.33	132
AVM 1-27	1	30.08	44.73	8.60	6.87	163
	3	30.08	43.31	7.01	4.33	134

* All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

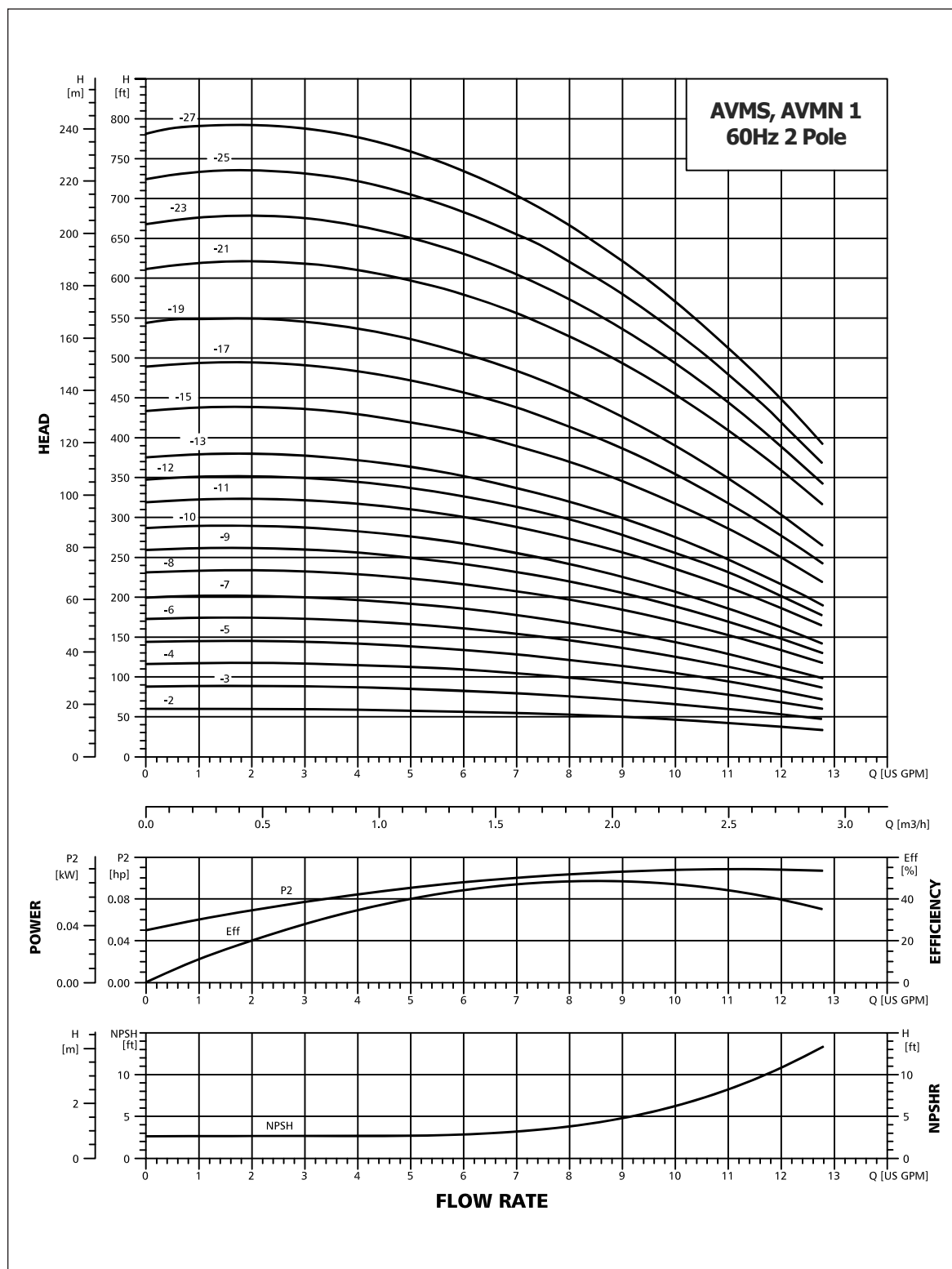
PERFORMANCE TABLE

Model	HP	m ³ /h	0	0.4	0.8	1.2	1.6	2	2.4	2.8
		USGPM	0	2	4	5	7	9	11	12
AVM1-2	1/3	Head (Ft.)	59	58	55	53	52	49	43	36
AVM1-3	1/3		89	87	86	84	79	72	59	49
AVM1-4	1/2		118	116	115	112	105	92	82	66
AVM1-5	1/2		144	143	141	135	128	115	98	79
AVM1-6	3/4		174	173	171	164	154	138	118	92
AVM1-7	3/4		203	200	197	187	177	157	138	105
AVM1-8	1		233	231	230	220	207	187	157	125
AVM1-9	1		262	259	257	246	233	210	177	141
AVM1-10	1 1/2		289	285	282	276	253	230	197	154
AVM1-11	1 1/2		348	345	340	308	285	259	220	177
AVM1-12	1 1/2		358	350	345	335	312	282	243	187
AVM1-13	1 1/2		381	377	374	361	335	302	259	207
AVM1-15	2		440	435	433	413	387	348	299	236
AVM1-17	2		495	489	486	469	436	390	335	262
AVM1-19	3		548	545	541	518	482	433	367	285
AVM1-21	3		620	618	614	591	554	499	430	341
AVM1-23	3		676	674	673	643	604	541	466	367
AVM1-25	3		735	730	728	699	653	587	505	397
AVM1-27	3		791	787	784	751	702	630	538	427

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

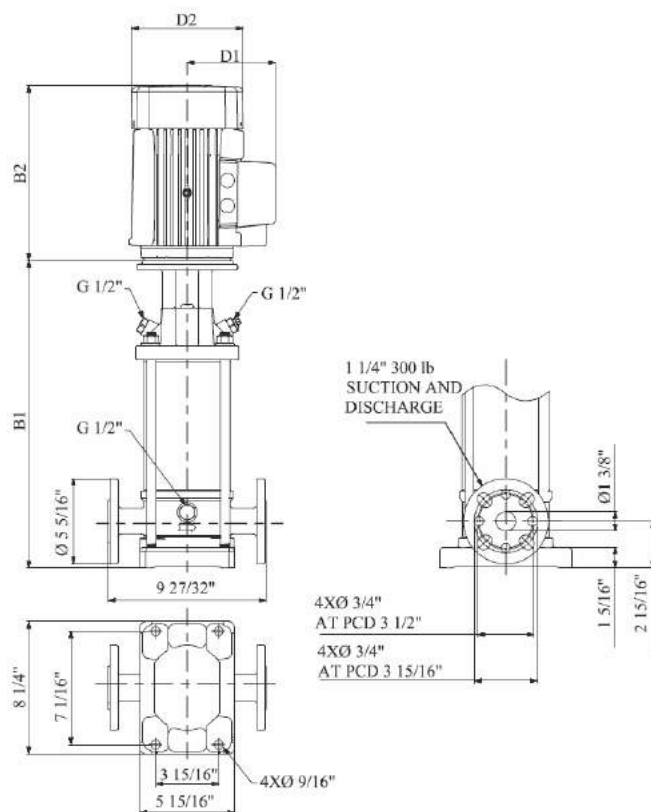


VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE

*Dimensions and Weight



Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMS,AVMN 1-2	1	11.97	21.26	6.19	5.18	64
	3	11.97	19.41	5.55	4.57	62
AVMS,AVMN 1-3	1	11.97	21.26	6.19	5.18	64
	3	11.97	19.41	5.55	4.57	62
AVMS,AVMN 1-4	1	12.68	21.97	6.19	5.18	68
	3	12.68	20.12	5.55	4.57	63
AVMS,AVMN 1-5	1	13.39	22.68	6.19	5.18	69
	3	13.39	20.83	5.55	4.57	64
AVMS,AVMN 1-6	1	14.09	24.00	6.19	5.18	74
	3	14.09	21.53	5.55	4.57	65
AVMS,AVMN 1-7	1	14.80	24.71	6.19	5.18	75
	3	14.80	22.24	5.55	4.57	66
AVMS,AVMN 1-8	1	15.51	26.70	7.19	5.73	88
	3	15.51	22.95	5.55	4.57	67
AVMS,AVMN 1-9	1	16.22	27.41	7.19	5.73	89
	3	16.22	23.66	5.55	4.57	68
AVMS,AVMN 1-10	1	16.93	28.61	7.19	5.73	90
	3	16.93	25.55	5.55	4.57	69
AVMS,AVMN 1-11	1	17.64	29.32	7.19	5.73	97
	3	17.64	26.26	5.55	4.57	70
AVMS,AVMN 1-12	1	18.35	30.03	7.19	5.73	98
	3	18.35	26.97	5.55	4.57	71
AVMS,AVMN 1-13	1	19.06	30.74	7.19	5.73	99
	3	19.06	27.68	5.55	4.57	72
AVMS,AVMN 1-15	1	20.47	33.03	7.19	5.73	109
	3	20.47	31.69	7.01	4.33	99
AVMS,AVMN 1-17	1	21.89	34.45	7.19	5.73	110
	3	21.89	33.11	7.01	4.33	101
AVMS,AVMN 1-19	1	24.41	39.06	8.60	6.87	148
	3	24.41	37.64	7.01	4.33	116
AVMS,AVMN 1-21	1	25.83	40.48	8.60	6.87	150
	3	25.83	39.06	7.01	4.33	118
AVMS,AVMN 1-23	1	27.24	41.89	8.60	6.87	152
	3	27.24	40.87	7.01	4.33	123
AVMS,AVMN 1-25	1	28.66	43.31	8.60	6.87	154
	3	28.66	41.89	7.01	4.33	125
AVMS,AVMN 1-27	1	30.08	44.73	8.60	6.87	156
	3	30.08	43.31	7.01	4.33	127

* All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

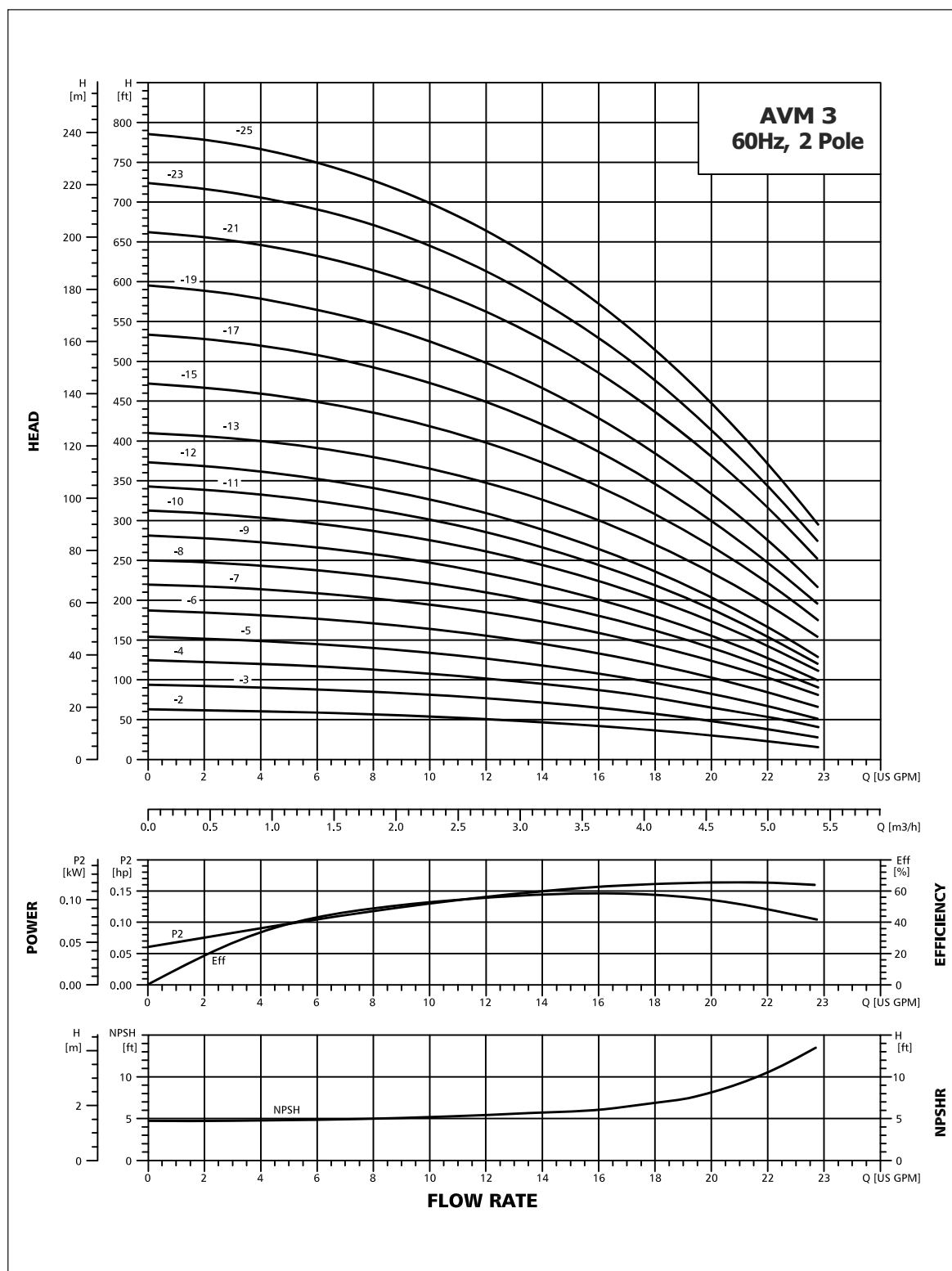
PERFORMANCE TABLE

Model	HP	m ³ /h	0	0.4	0.8	1.2	1.6	2	2.4	2.8
		USGPM	0	2	4	5	7	9	11	12
AVMS/AVMN,1-2	1/3	Head (Ft.)	59	58	55	53	52	49	43	36
AVMS/AVMN,1-3	1/3		89	87	86	84	79	72	59	49
AVMS/AVMN,1-4	1/2		118	116	115	112	105	92	82	66
AVMS/AVMN,1-5	1/2		144	143	141	135	128	115	98	79
AVMS/AVMN,1-6	3/4		174	173	171	164	154	138	118	92
AVMS/AVMN,1-7	3/4		203	200	197	187	177	157	138	105
AVMS/AVMN,1-8	1		233	231	230	220	207	187	157	125
AVMS/AVMN,1-9	1		262	259	257	246	233	210	177	141
AVMS/AVMN,1-10	11/2		289	285	282	276	253	230	197	154
AVMS/AVMN,1-11	11/2		348	345	340	308	285	259	220	177
AVMS/AVMN,1-12	11/2		358	350	345	335	312	282	243	187
AVMS/AVMN,1-13	11/2		381	377	374	361	335	302	259	207
AVMS/AVMN, 1-15	2		440	435	433	413	387	348	299	236
AVMS/AVMN, 1-17	2		495	489	486	469	436	390	335	262
AVMS/AVMN,1-19	3		548	545	541	518	482	433	367	285
AVMS/AVMN,1-21	3		620	618	614	591	554	499	430	341
AVMS/AVMN,1-23	3		676	674	673	643	604	541	466	367
AVMS/AVMN,1-25	3		735	730	728	699	653	587	505	397
AVMS/AVMN,1-27	3		791	787	784	751	702	630	538	427

• This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

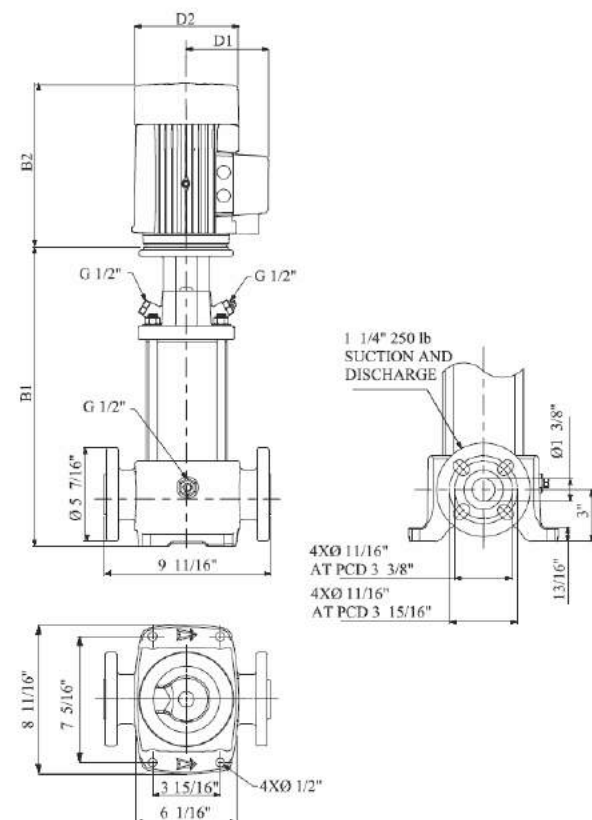
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



- * All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
 • This performance table is approximate as performance curve.
 • Subject to technical change without notice.

*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 3-2	1	11.97	21.26	6.19	5.18	69
	3	11.97	19.41	5.55	4.57	67
AVM 3-3	1	11.97	21.26	6.19	5.18	73
	3	11.97	19.41	5.55	4.57	67
AVM 3-4	1	12.68	22.59	6.19	5.18	78
	3	12.68	20.12	5.55	4.57	69
AVM 3-5	1	13.39	23.30	6.19	5.18	79
	3	13.39	20.83	5.55	4.57	70
AVM 3-6	1	14.09	25.28	7.19	5.73	91
	3	14.09	21.53	5.55	4.57	71
AVM 3-7	1	14.80	26.48	7.19	5.73	95
	3	14.80	23.42	5.55	4.57	72
AVM 3-8	1	15.51	27.19	7.19	5.73	96
	3	15.51	24.13	5.55	4.57	73
AVM 3-9	1	16.22	27.90	7.19	5.73	97
	3	16.22	24.84	5.55	4.57	74
AVM 3-10	1	16.93	29.49	7.19	5.73	109
	3	16.93	28.15	7.01	4.33	96
AVM 3-11	1	17.64	30.20	7.19	5.73	110
	3	17.64	28.86	7.01	4.33	101
AVM 3-12	1	18.35	30.91	7.19	5.73	111
	3	18.35	29.57	7.01	4.33	102
AVM 3-13	1	20.16	34.81	8.60	6.87	147
	3	20.16	33.39	7.01	4.33	118
AVM 3-15	1	21.57	36.22	8.60	6.87	149
	3	21.57	34.80	7.01	4.33	120
AVM 3-17	1	22.99	37.64	8.60	6.87	150
	3	22.99	36.22	7.01	4.33	121
AVM 3-19	1	24.41	39.93	10.62	7.46	179
	3	24.41	39.92	8.66	5.28	175
AVM 3-21	1	25.83	41.35	10.62	7.46	181
	3	25.83	41.34	8.66	5.28	177
AVM 3-23	1	27.24	42.76	10.62	7.46	182
	3	27.24	42.75	8.66	5.28	179
AVM 3-25	1	28.66	44.15	10.62	7.46	184
	3	28.66	44.17	8.66	5.28	181

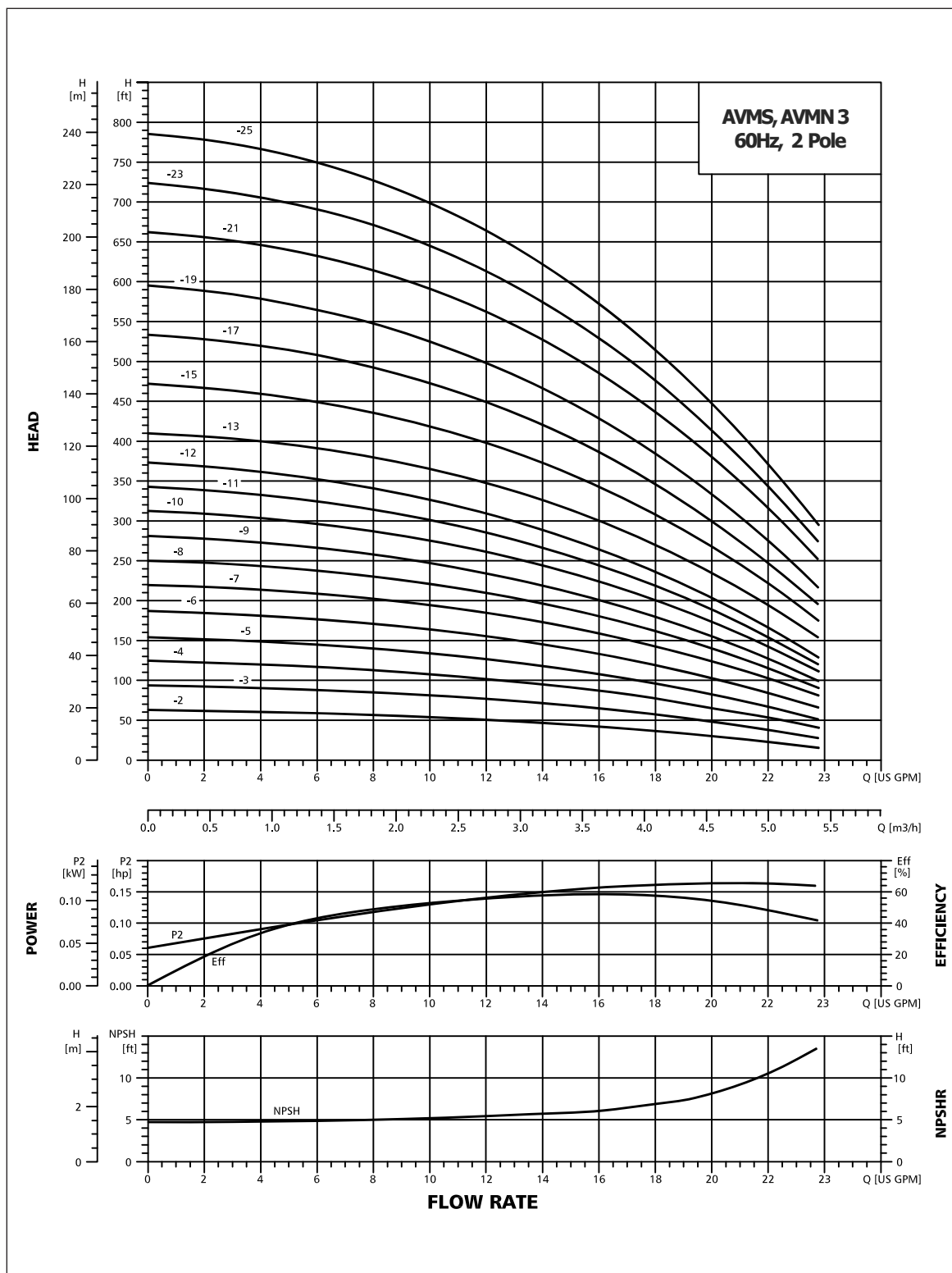
PERFORMANCE TABLE

Model	HP	m ³ /h USGPM	0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
			0	3	6	9	12	15	18	22
AVM 3-2	1/3	Head (Ft-)	62	59	56	52	49	43	33	23
AVM 3-3	1/2		92	89	85	82	75	66	52	39
AVM 3-4	3/4		125	121	118	108	98	89	75	56
AVM 3-5	3/4		154	151	144	138	125	112	92	72
AVM 3-6	1		187	184	177	167	154	138	115	89
AVM 3-7	1 1/2		220	217	210	197	180	164	138	108
AVM 3-8	1 1/2		249	246	236	223	207	184	170	118
AVM 3-9	1 1/2		282	276	266	253	230	207	174	131
AVM 3-10	2		312	305	295	279	259	230	194	148
AVM 3-11	2		341	335	322	308	282	249	213	157
AVM 3-12	2		374	361	351	331	305	272	230	174
AVM 3-13	3		410	404	390	368	344	308	262	203
AVM 3-15	3		472	463	446	427	394	351	299	233
AVM 3-17	3		535	525	509	466	443	394	335	259
AVM 3-19	5		594	584	561	535	492	440	374	289
AVM 3-21	5		663	650	630	600	558	499	423	328
AVM 3-23	5		722	709	689	656	607	541	472	358
AVM 3-25	5		787	771	745	709	656	587	499	387

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

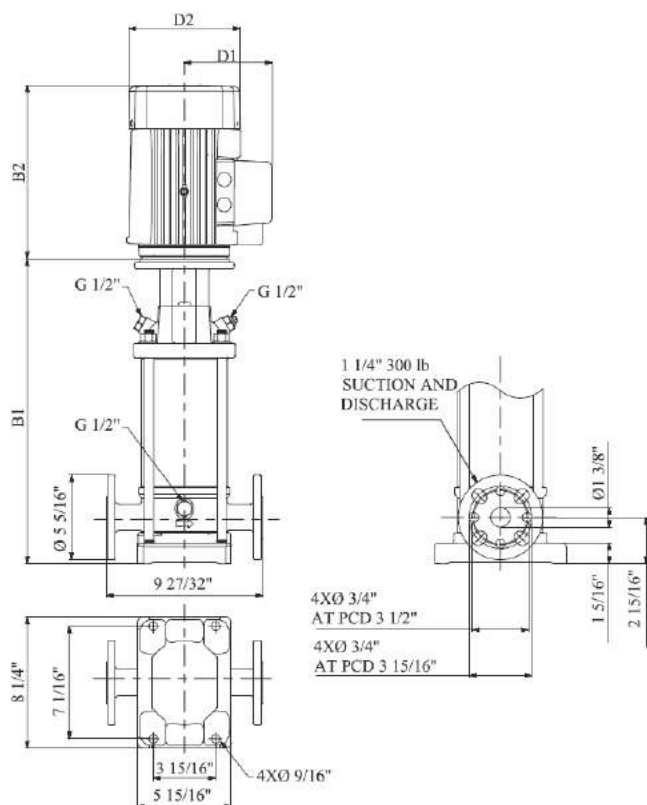


VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE

*Dimensions and Weight



Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMS, AVMN 3-2	1	12.09	21.38	6.19	5.18	64
	3	12.09	19.53	5.55	4.57	62
AVMS, AVMN 3-3	1	12.09	21.38	6.19	5.18	67
	3	12.09	19.53	5.55	4.57	62
AVMS, AVMN 3-4	1	12.80	22.71	6.19	5.18	73
	3	12.80	20.24	5.55	4.57	63
AVMS, AVMN 3-5	1	13.50	23.41	6.19	5.18	74
	3	13.50	20.94	5.55	4.57	65
AVMS, AVMN 3-6	1	14.21	25.40	7.19	5.73	86
	3	14.21	21.65	5.55	4.57	65
AVMS, AVMN 3-7	1	14.92	26.60	7.19	5.73	90
	3	14.92	23.54	5.55	4.57	67
AVMS, AVMN 3-8	1	15.63	27.31	7.19	5.73	91
	3	15.63	24.25	5.55	4.57	68
AVMS, AVMN 3-9	1	16.34	28.02	7.19	5.73	92
	3	16.34	24.96	5.55	4.57	69
AVMS, AVMN 3-10	1	17.05	29.61	7.19	5.73	104
	3	17.05	28.27	7.01	4.33	91
AVMS, AVMN 3-11	1	17.76	30.32	7.19	5.73	105
	3	17.76	28.98	7.01	4.33	95
AVMS, AVMN 3-12	1	18.46	31.02	7.19	5.73	106
	3	18.46	29.68	7.01	4.33	96
AVMS, AVMN 3-13	1	20.28	34.93	8.60	6.87	140
	3	20.28	33.51	7.01	4.33	111
AVMS, AVMN 3-15	1	21.69	36.34	8.60	6.87	142
	3	21.69	34.92	7.01	4.33	113
AVMS, AVMN 3-17	1	23.11	37.76	8.60	6.87	143
	3	23.11	36.34	7.01	4.33	114
AVMS, AVMN 3-19	1	24.53	40.05	10.62	7.46	172
	3	24.53	40.04	8.66	5.28	168
AVMS, AVMN 3-21	1	25.94	41.46	10.62	7.46	174
	3	25.94	41.45	8.66	5.28	170
AVMS, AVMN 3-23	1	27.36	42.88	10.62	7.46	175
	3	27.36	42.87	8.66	5.28	172
AVMS, AVMN 3-25	1	28.78	44.30	10.62	7.46	177
	3	28.78	44.29	8.66	5.28	174

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

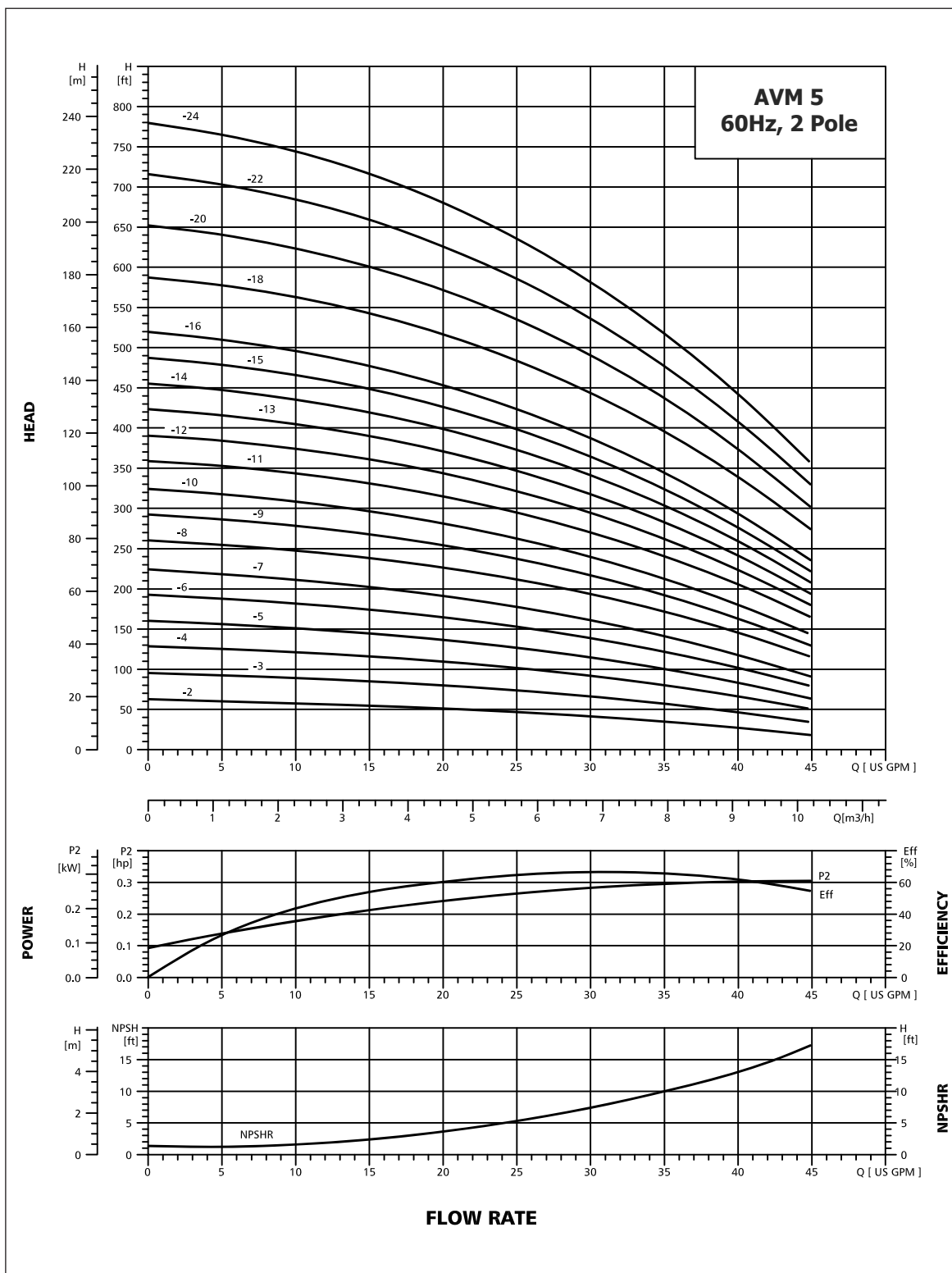
PERFORMANCE TABLE

Model	HP	m ³ /h	0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
		USGPM	0	3	6	9	12	15	18	22
AVMS/AVMN, 3-2	1/3	Head (Ft.)	62	59	56	52	49	43	33	23
AVMS/AVMN, 3-3	1/2		92	89	85	82	75	66	52	39
AVMS/AVMN, 3-4	3/4		125	121	118	108	98	89	75	56
AVMS/AVMN, 3-5	3/4		154	151	144	138	125	112	92	72
AVMS/AVMN, 3-6	1		187	184	177	167	154	138	115	89
AVMS/AVMN, 3-7	1 1/2		220	217	210	197	180	164	138	108
AVMS/AVMN, 3-8	1 1/2		249	246	236	223	207	184	170	118
AVMS/AVMN, 3-9	1 1/2		282	276	266	253	230	207	174	131
AVMS/AVMN, 3-10	2		312	305	295	279	259	230	194	148
AVMS/AVMN, 3-11	2		341	335	322	308	282	249	213	157
AVMS/AVMN, 3-12	2		374	361	351	331	305	272	230	174
AVMS/AVMN, 3-13	3		410	404	390	368	344	308	262	203
AVMS/AVMN, 3-15	3		472	463	446	427	394	351	299	233
AVMS/AVMN, 3-17	3		535	525	509	466	443	394	335	259
AVMS/AVMN, 3-19	5		594	584	561	535	492	440	374	289
AVMS/AVMN, 3-21	5		663	650	630	600	558	499	423	328
AVMS/AVMN, 3-23	5		722	709	689	656	607	541	472	358
AVMS/AVMN, 3-25	5		787	771	745	709	656	587	499	387

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

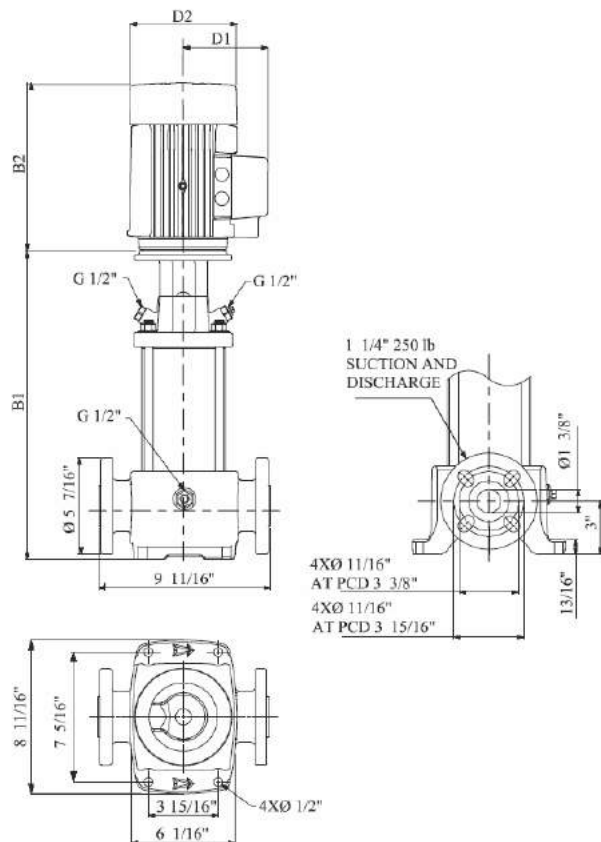
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 5-2	1	11.97	21.88	6.19	5.18	77
	3	11.97	19.41	5.55	4.57	68
AVM 5-3	1	13.03	24.22	7.19	5.73	90
	3	13.03	20.47	5.55	4.57	69
AVM 5-4	1	14.09	25.77	7.19	5.73	94
	3	14.09	22.71	5.55	4.57	71
AVM 5-5	1	15.16	27.72	7.19	5.73	106
	3	15.16	26.38	7.01	4.33	93
AVM 5-6	1	16.22	28.78	7.19	5.73	108
	3	16.22	27.44	7.01	4.33	95
AVM 5-7	1	18.39	33.04	8.60	6.87	143
	3	18.39	31.62	7.01	4.33	114
AVM 5-8	1	19.45	34.10	8.60	6.87	145
	3	19.45	32.68	7.01	4.33	116
AVM 5-9	1	20.51	35.16	8.60	6.87	147
	3	20.51	33.74	7.01	4.33	118
AVM 5-10	1	21.57	37.09	10.62	7.46	170
	3	21.57	37.08	8.66	5.28	168
AVM 5-11	1	22.64	38.16	10.62	7.46	172
	3	22.64	38.15	8.66	5.28	169
AVM 5-12	1	23.70	39.22	10.62	7.46	177
	3	23.70	39.21	8.66	5.28	170
AVM 5-13	1	24.76	40.28	10.62	7.46	178
	3	24.76	40.27	8.66	5.28	171
AVM 5-14	1	25.83	41.35	10.62	7.46	180
	3	25.83	41.34	8.66	5.28	176
AVM 5-15	1	26.89	42.41	10.62	7.46	181
	3	26.89	42.40	8.66	5.28	177
AVM 5-16	1	27.95	43.47	10.62	7.46	182
	3	27.95	43.46	8.66	5.28	178
AVM 5-18	1	30.59	46.12	10.22	7.62	200
	3	30.59	46.19	8.66	5.28	188
AVM 5-20	1	32.72	48.25	10.22	7.62	203
	3	32.72	48.23	8.66	5.28	190
AVM 5-22	1	34.84	50.37	10.22	7.62	300
	3	34.84	50.35	8.66	5.28	287
AVM 5-24	1	36.97	52.50	10.22	7.62	302
	3	36.97	52.48	8.66	5.28	290

* All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

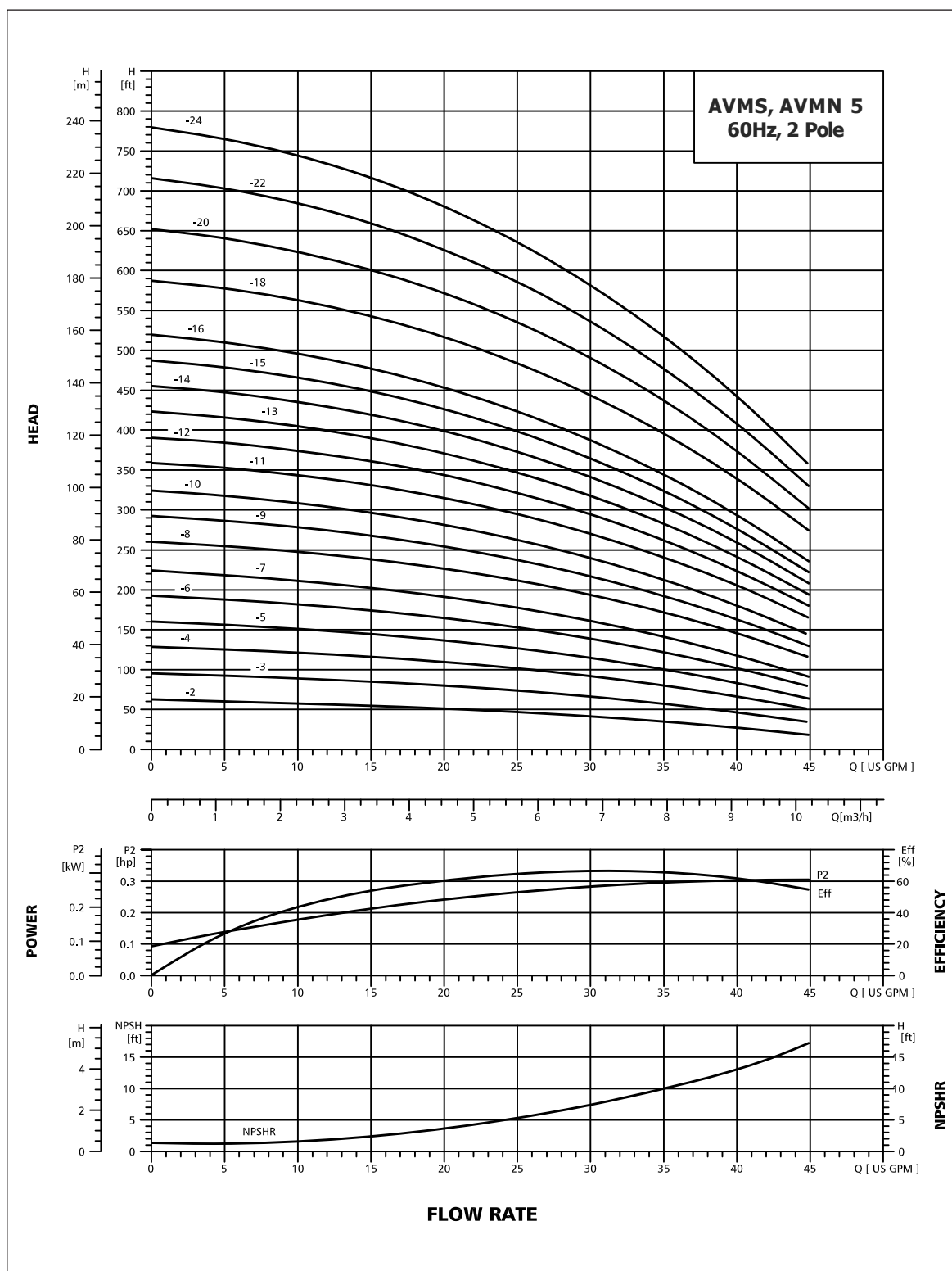
PERFORMANCE TABLE

Model	HP	m ³ /h	0	1.5	3	4.5	6	7.5	9	10
		USGPM	0	7	13	20	26	33	40	44
AVM5-2	3/4	Head (Ft.)	62	59	56	52	43	36	26	20
AVM5-3	1		95	89	85	79	72	59	46	36
AVM5-4	1 1/2		128	121	118	112	98	85	66	52
AVM5-5	2		157	154	148	135	121	105	85	66
AVM5-6	2		190	187	177	164	148	131	105	82
AVM5-7	3		223	217	207	190	174	148	118	95
AVM5-8	3		259	253	243	226	207	180	148	121
AVM5-9	3		292	282	272	253	230	200	164	138
AVM5-10	5		325	315	302	282	256	223	184	151
AVM5-11	5		358	351	338	315	289	249	210	174
AVM5-12	5		390	380	367	344	312	276	226	187
AVM5-13	5		423	413	394	374	338	295	246	203
AVM5-14	5		456	440	423	400	364	318	262	217
AVM5-15	5		486	476	456	427	390	341	279	230
AVM5-16	5		518	505	482	453	413	361	295	246
AVM5-18	7 1/2		587	574	535	518	472	413	344	285
AVM5-20	7 1/2		653	636	610	571	522	459	377	315
AVM5-22	7 1/2		712	699	669	627	571	502	413	344
AVM5-24	7 1/2		780	760	725	680	632	540	440	380

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

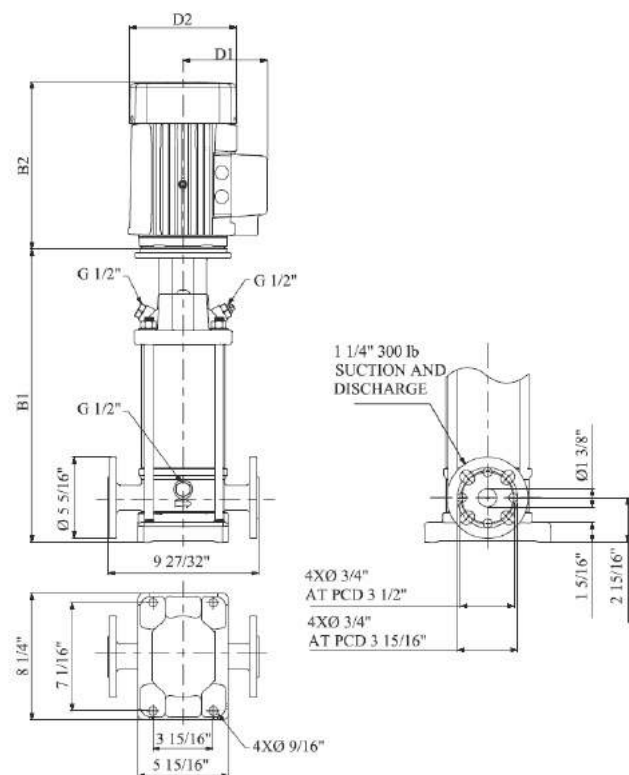
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMS, AVMN 5-2	1	12.09	22.00	6.19	5.18	71
	3	12.09	19.53	5.55	4.57	62
AVMS, AVMN 5-3	1	13.15	24.34	7.19	5.73	85
	3	13.15	20.59	5.55	4.57	64
AVMS, AVMN 5-4	1	14.21	25.89	7.19	5.73	89
	3	14.21	22.83	5.55	4.57	66
AVMS, AVMN 5-5	1	15.28	27.84	7.19	5.73	101
	3	15.28	26.50	7.01	4.33	88
AVMS, AVMN 5-6	1	16.34	28.90	7.19	5.73	103
	3	16.34	27.56	7.01	4.33	90
AVMS, AVMN 5-7	1	18.51	33.16	8.60	6.87	136
	3	18.51	31.74	7.01	4.33	107
AVMS, AVMN 5-8	1	19.57	34.22	8.60	6.87	138
	3	19.57	32.80	7.01	4.33	109
AVMS, AVMN 5-9	1	20.63	35.28	8.60	6.87	140
	3	20.63	33.86	7.01	4.33	111
AVMS, AVMN 5-10	1	21.69	37.21	10.62	7.46	163
	3	21.69	37.20	8.66	5.28	160
AVMS, AVMN 5-11	1	22.76	38.28	10.62	7.46	165
	3	22.76	38.27	8.66	5.28	162
AVMS, AVMN 5-12	1	23.82	39.34	10.62	7.46	170
	3	23.82	39.33	8.66	5.28	163
AVMS, AVMN 5-13	1	24.88	40.40	10.62	7.46	171
	3	24.88	40.39	8.66	5.28	164
AVMS, AVMN 5-14	1	25.94	41.46	10.62	7.46	173
	3	25.94	41.45	8.66	5.28	169
AVMS, AVMN 5-15	1	27.01	42.53	10.62	7.46	174
	3	27.01	42.52	8.66	5.28	170
AVMS, AVMN 5-16	1	28.07	43.59	10.62	7.46	175
	3	28.07	43.58	8.66	5.28	171
AVMS, AVMN 5-18	1	30.71	46.24	10.22	7.62	193
	3	30.71	46.22	8.66	5.28	181
AVMS, AVMN 5-20	1	32.83	48.36	10.22	7.62	196
	3	32.83	48.34	8.66	5.28	183
AVMS, AVMN 5-22	1	34.96	50.49	10.22	7.62	293
	3	34.96	50.47	8.66	5.28	280
AVMS, AVMN 5-24	1	37.09	52.62	10.22	7.62	295
	3	37.09	52.60	8.66	5.28	283

- * All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

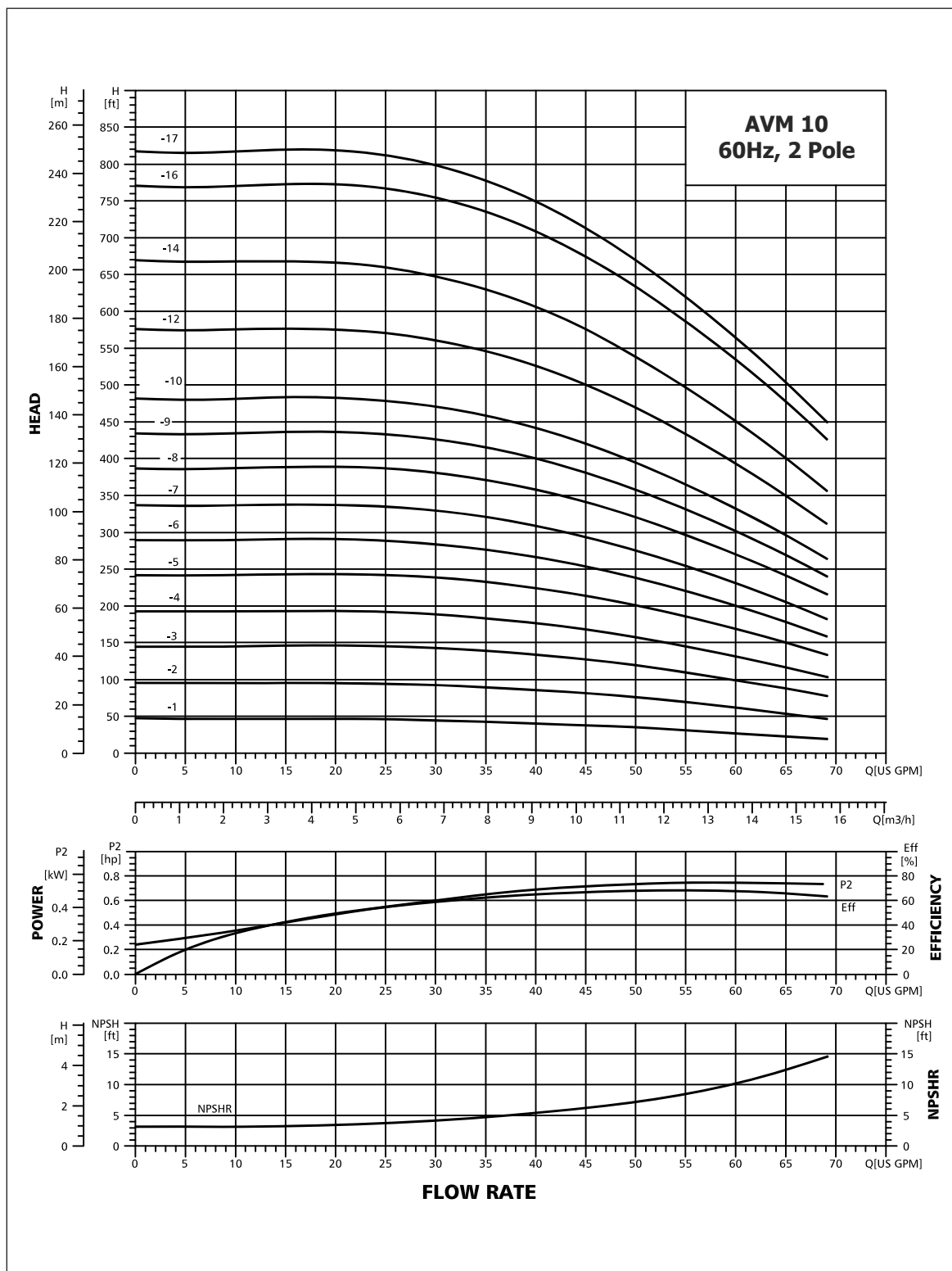
PERFORMANCE TABLE

Model	HP	m ³ /h	0	1.5	3	4.5	6	7.5	9	10
		USGPM	0	7	13	20	26	33	40	44
AVMS/AVMN, 5-2	3/4	Head (Ft.)	62	59	56	52	43	36	26	20
AVMS/AVMN, 5-3	1		95	89	85	79	72	59	46	36
AVMS/AVMN, 5-4	1 1/2		128	121	118	112	98	85	66	52
AVMS/AVMN, 5-5	2		157	154	148	135	121	105	85	66
AVMS/AVMN, 5-6	2		190	187	177	164	148	131	105	82
AVMS/AVMN, 5-7	3		223	217	207	190	174	148	118	95
AVMS/AVMN, 5-8	3		259	253	243	226	207	180	148	121
AVMS/AVMN, 5-9	3		292	282	272	253	230	200	164	138
AVMS/AVMN, 5-10	5		325	315	302	282	256	223	184	151
AVMS/AVMN, 5-11	5		358	351	338	315	289	249	210	174
AVMS/AVMN, 5-12	5		390	380	367	344	312	276	226	187
AVMS/AVMN, 5-13	5		423	413	394	374	338	295	246	203
AVMS/AVMN, 5-14	5		456	440	423	400	364	318	262	217
AVMS/AVMN, 5-15	5		486	476	456	427	390	341	279	230
AVMS/AVMN, 5-16	5		518	505	482	453	413	361	295	246
AVMS/AVMN, 5-18	7 1/2		587	574	535	518	472	413	344	285
AVMS/AVMN, 5-20	7 1/2		653	636	610	571	522	459	377	315
AVMS/AVMN, 5-22	7 1/2		712	699	669	627	571	502	413	344
AVMS/AVMN, 5-24	7 1/2		780	760	725	680	632	540	440	380

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

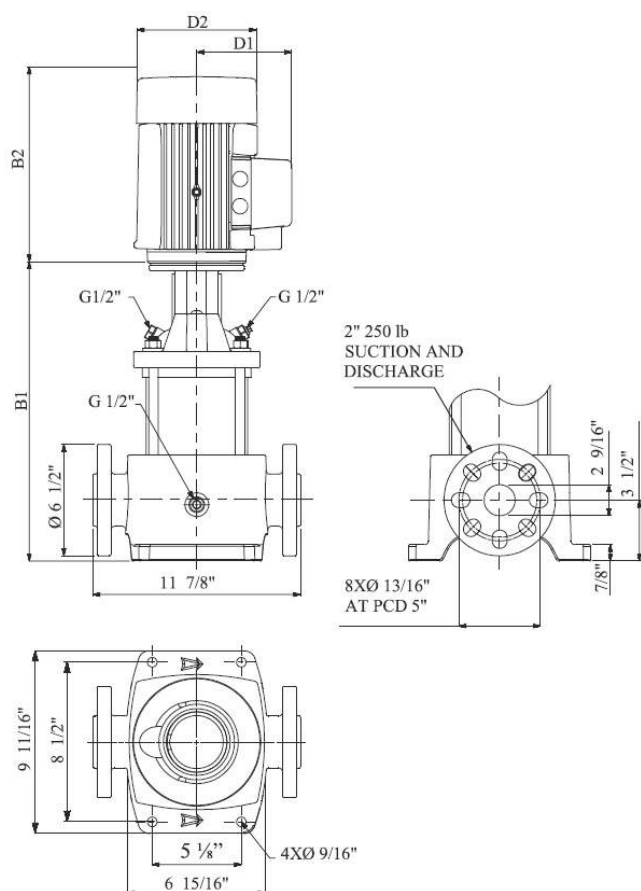
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 10-1	1	15.28	25.19	6.19	5.18	115
	3	15.28	22.72	5.55	4.57	106
AVM 10-2	1	15.28	26.96	7.19	5.73	128
	3	15.28	23.90	5.55	4.57	106
AVM 10-3	1	17.20	31.85	8.60	6.87	183
	3	17.20	30.43	7.01	4.33	153
AVM 10-4	1	18.39	33.04	8.60	6.87	183
	3	18.39	31.62	7.01	4.33	156
AVM 10-5	1	19.57	35.09	10.62	7.46	209
	3	19.57	35.08	8.66	5.28	206
AVM 10-6	1	20.75	36.27	10.62	7.46	212
	3	20.75	36.26	8.66	5.28	208
AVM 10-7	1	22.25	37.78	10.22	7.62	232
	3	22.25	37.76	8.66	5.28	221
AVM 10-8	1	23.43	38.96	10.22	7.62	234
	3	23.43	38.94	8.66	5.28	223
AVM 10-9	1	24.61	40.14	10.22	7.62	236
	3	24.61	40.12	8.66	5.28	225
AVM 10-10	1	25.79	41.32	10.22	7.62	238
	3	25.79	41.30	8.66	5.28	227
AVM 10-12	1	28.15	44.22	10.23	10.30	355
	3	28.15	42.88	10.24	6.26	232
AVM 10-14	3	33.06	51.60	12.36	8.00	414
AVM 10-16	3	35.43	53.97	12.36	8.00	422
AVM 10-17	3	37.80	56.34	12.36	8.00	426

- * All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

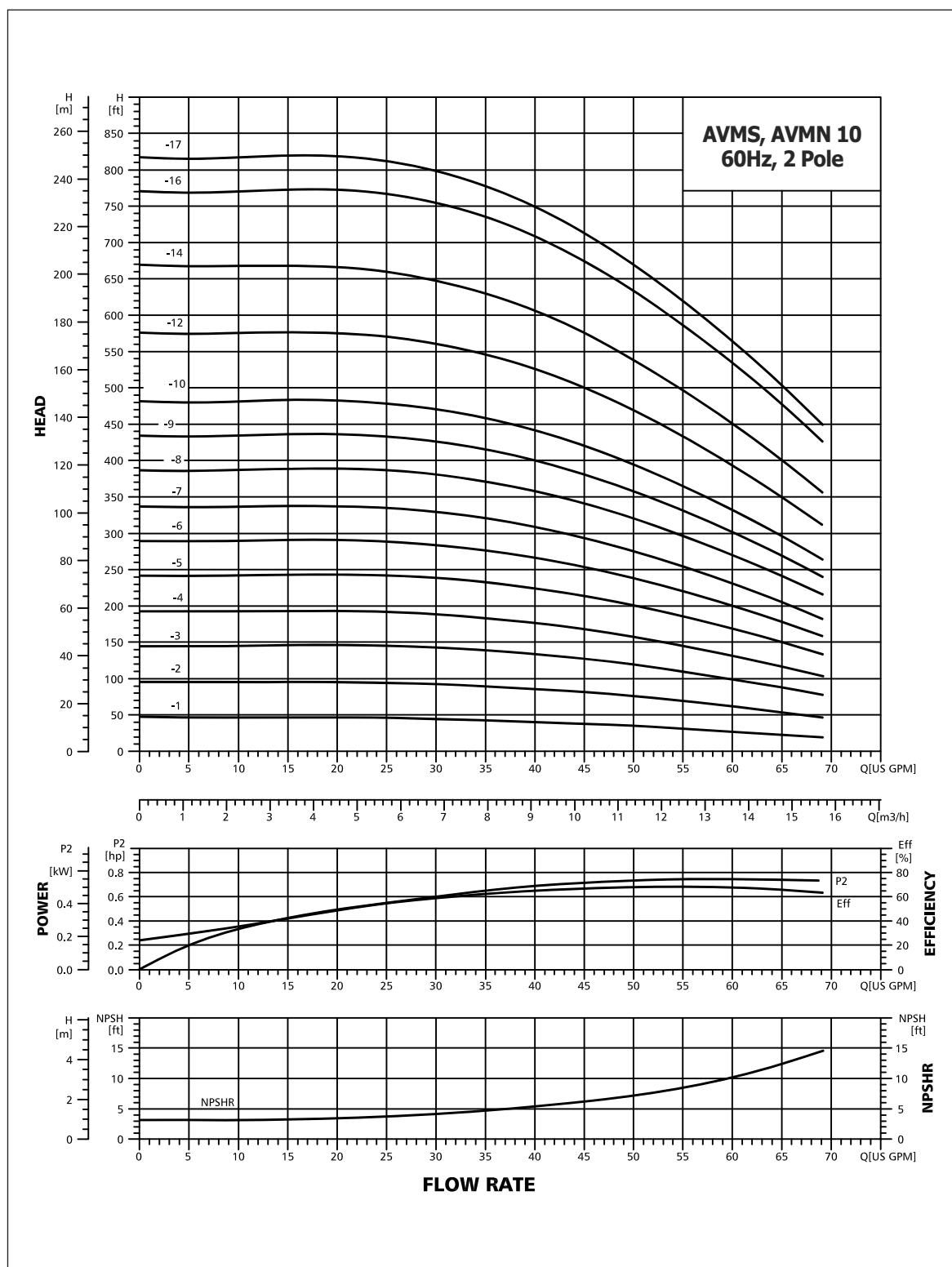
PERFORMANCE TABLE

Model	HP	m ³ /h	0	3	5	7	9	11	13	15
		USGPM	0	13	22	31	40	48	57	66
AVM 10-1	3/4	Head (Ft.)	48	47	45	43	39	36	30	23
AVM 10-2	1 1/2		96	95	93	90	85	79	66	49
AVM 10-3	3		144	143	141	138	131	121	105	85
AVM 10-4	3		194	192	190	185	177	161	141	115
AVM 10-5	5		243	241	240	238	223	207	177	144
AVM 10-6	5		289	288	286	282	269	243	210	174
AVM 10-7	7 1/2		338	336	334	328	308	282	243	200
AVM 10-8	7 1/2		385	383	381	377	361	328	282	240
AVM 10-9	7 1/2		436	433	429	427	400	364	318	262
AVM 10-10	7 1/2		482	480	478	469	443	404	351	289
AVM 10-12	10		577	576	574	558	525	479	413	341
AVM 10-14	15		673	669	663	643	607	548	476	390
AVM 10-16	15		775	770	760	748	709	650	564	466
AVM 10-17	15		823	820	817	794	719	682	594	489

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

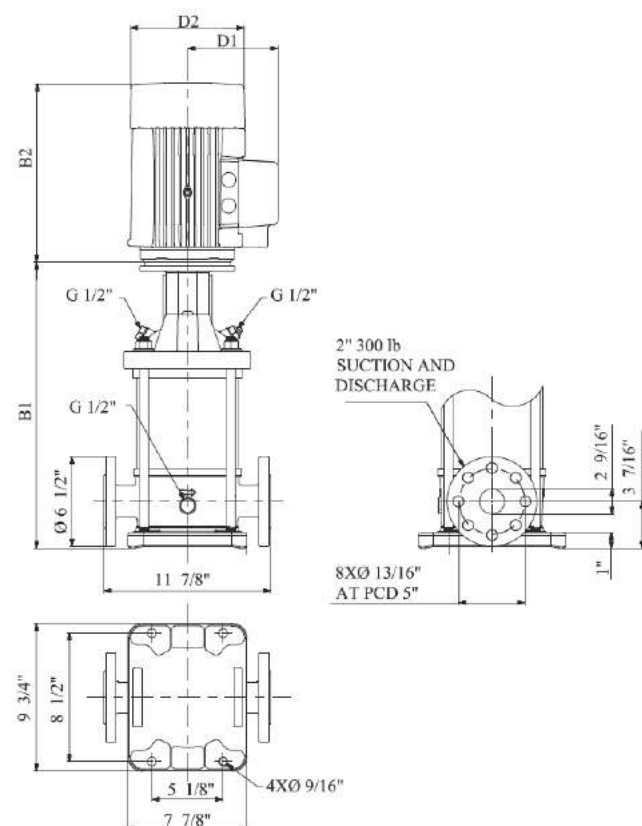
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMS, AVMN 10-1	1	15.20	25.11	6.19	5.18	106
	3	15.20	22.64	5.55	4.57	98
AVMS, AVMN 10-2	1	15.20	26.88	7.19	5.73	122
	3	15.20	23.82	5.55	4.57	100
AVMS, AVMN 10-3	1	17.13	31.78	8.60	6.87	175
	3	17.13	30.36	7.01	4.33	147
AVMS, AVMN 10-4	1	18.31	32.96	8.60	6.87	177
	3	18.31	31.54	7.01	4.33	147
AVMS, AVMN 10-5	1	19.49	35.01	10.62	7.46	203
	3	19.49	35.00	8.66	5.28	199
AVMS, AVMN 10-6	1	20.67	36.19	10.62	7.46	206
	3	20.67	36.18	8.66	5.28	202
AVMS, AVMN 10-7	1	22.17	37.70	10.22	7.62	225
	3	22.17	37.68	8.66	5.28	212
AVMS, AVMN 10-8	1	23.35	38.88	10.22	7.62	228
	3	23.35	38.86	8.66	5.28	214
AVMS, AVMN 10-9	1	24.53	40.06	10.22	7.62	230
	3	24.53	40.04	8.66	5.28	217
AVMS, AVMN 10-10	1	25.71	41.24	10.22	7.62	232
	3	25.71	41.22	8.66	5.28	219
AVMS, AVMN 10-12	1	28.07	44.14	10.23	10.30	347
	3	28.07	42.80	10.24	6.26	225
AVMS, AVMN 10-14	3	32.95	51.49	12.36	8.00	403
AVMS, AVMN 10-16	3	35.31	53.85	12.36	8.00	413
AVMS, AVMN 10-17	3	37.68	56.22	12.36	8.00	418

- * All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

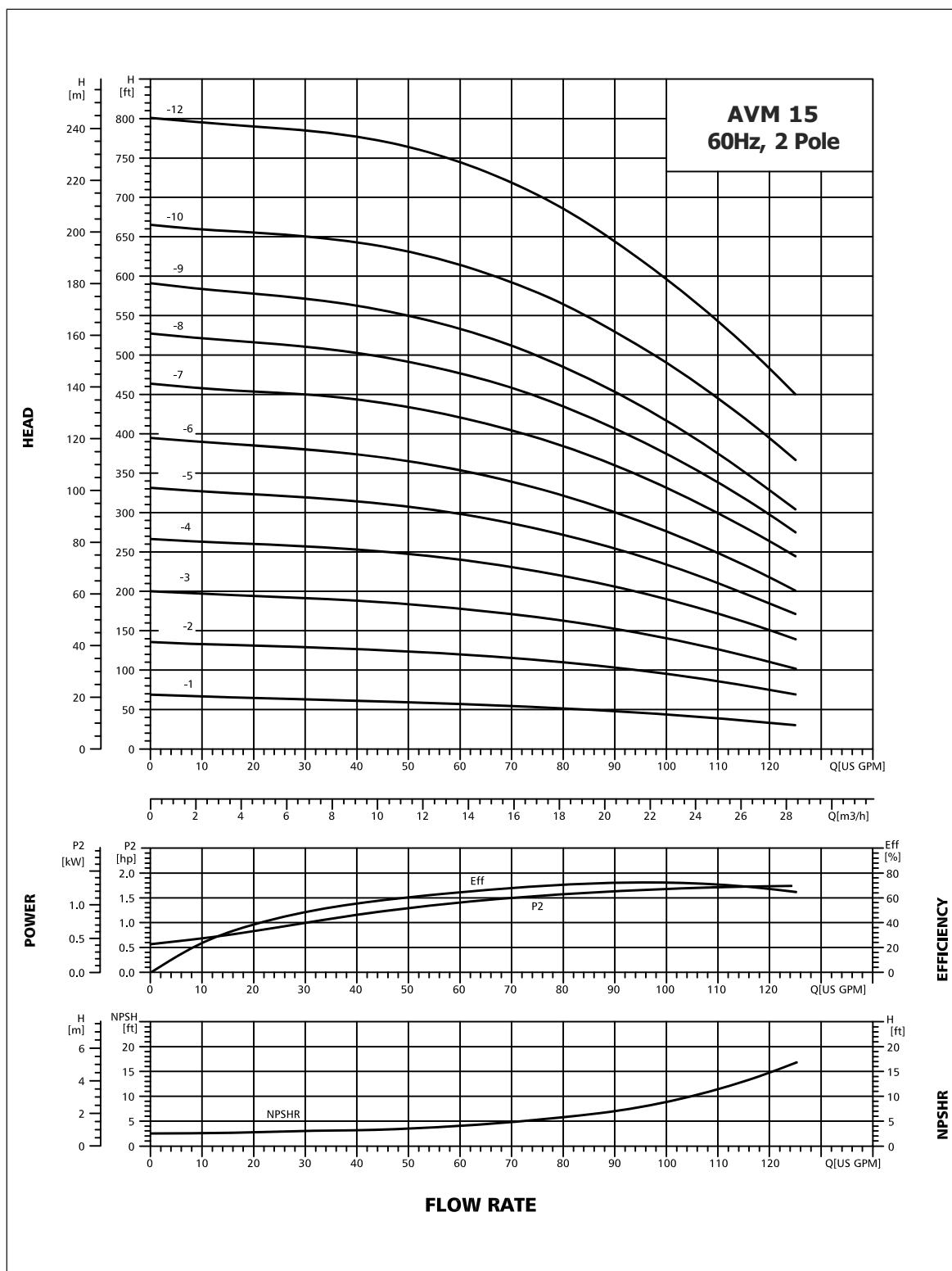
PERFORMANCE TABLE

Model	HP	m ³ /h	0	3	5	7	9	11	13	15
		USGPM	0	13	22	31	40	48	57	66
AVMS/AVMN,10-1	3/4	Head (Ft.)	48	47	45	43	39	36	30	23
AVMS/AVMN,10-2	11/2		96	95	93	90	85	79	66	49
AVMS/AVMN, 10-3	3		144	143	141	138	131	121	105	85
AVMS/AVMN, 10-4	3		194	192	190	185	177	161	141	115
AVMS/AVMN, 10-5	5		243	241	240	238	223	207	177	144
AVMS/AVMN,10-6	5		289	288	286	282	269	243	210	174
AVMS/AVMN,10-7	71/2		338	336	334	328	308	282	243	200
AVMS/AVMN,10-8	71/2		385	383	381	377	361	328	282	240
AVMS/AVMN,10-9	71/2		436	433	429	427	400	364	318	262
AVMS/AVMN,10-10	71/2		482	480	478	469	443	404	351	289
AVMS/AVMN,10-12	10		577	576	574	558	525	479	413	341
AVMS/AVMN,10-14	15		673	669	663	643	607	548	476	390
AVMS/AVMN,10-16	15		775	770	760	748	709	650	564	466
AVMS/AVMN,10-17	15		823	820	817	794	719	682	594	489

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

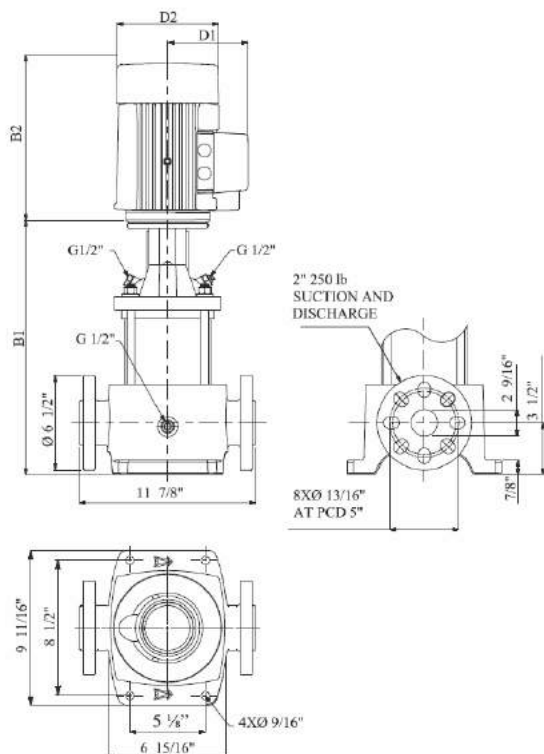
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 15-1	1	16.46	29.02	7.19	5.73	139
	3	16.46	27.68	7.01	4.33	128
AVM 15-2	1	17.20	32.72	10.62	7.46	205
	3	17.20	32.71	8.67	5.28	201
AVM 15-3	1	19.29	34.82	10.22	7.62	223
	3	19.29	34.80	8.66	5.28	212
AVM 15-4	1	21.06	36.59	10.22	7.62	225
	3	21.06	36.57	8.66	5.28	214
AVM 15-5	1	22.83	38.90	10.23	10.30	342
	3	22.83	37.56	10.24	6.26	218
AVM 15-6	3	27.17	45.71	12.36	8.00	347
AVM 15-7	3	28.94	47.48	12.36	8.00	378
AVM 15-8	3	30.71	49.25	12.36	8.00	409
AVM 15-9	3	32.48	51.02	12.36	8.00	417
AVM 15-10	3	34.25	52.79	12.36	8.00	421
AVM 15-12	3	37.17	59.56	12.36	8.00	422

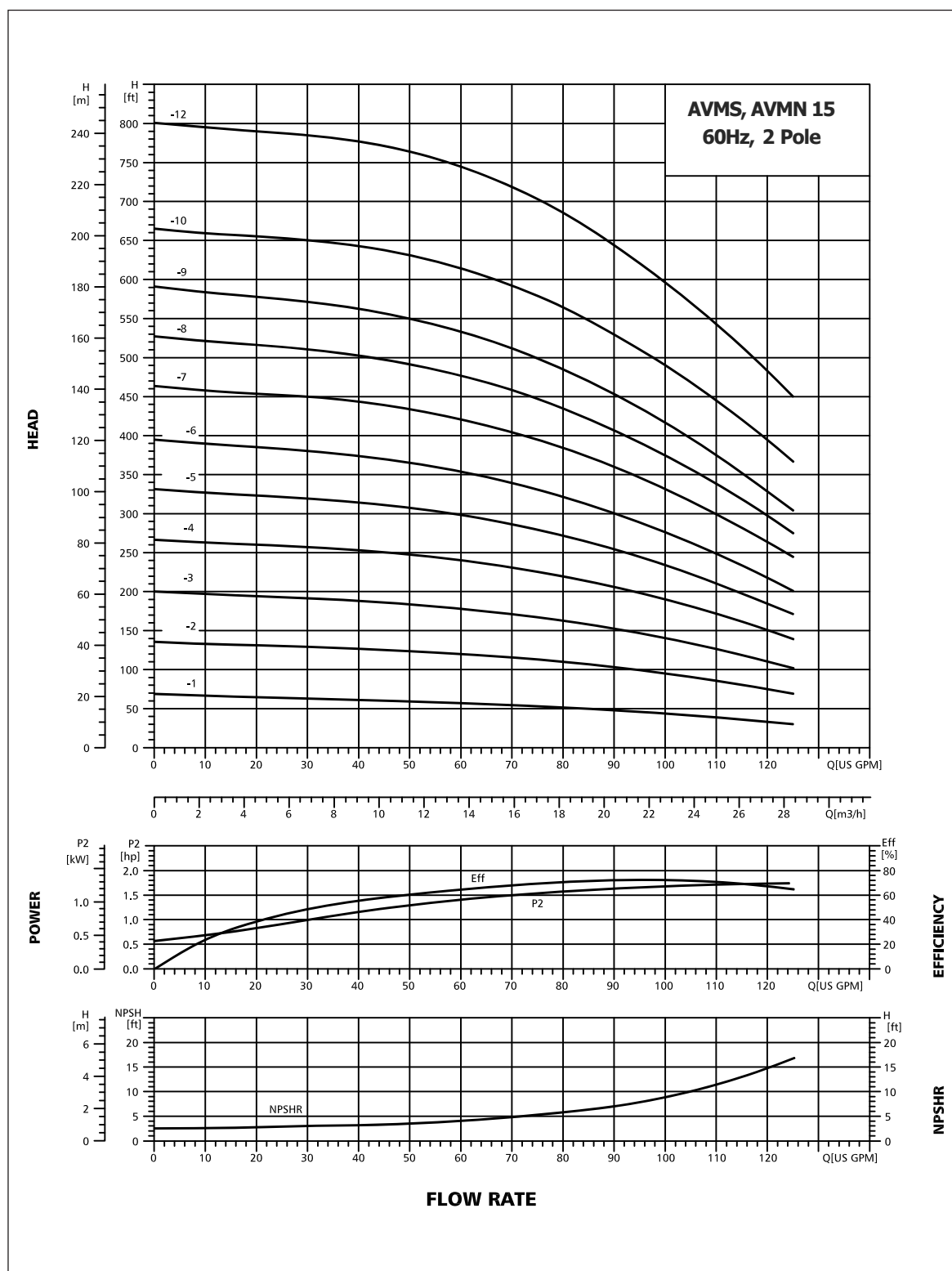
PERFORMANCE TABLE

Model	HP	m ³ /h	0	4	8	12	16	20	24	28
		USGPM	0	18	35	53	70	88	106	123
AVM15-1	2	Head (Ft.)	69	66	62	59	52	49	43	30
AVM15-2	5		135	131	128	121	115	105	89	72
AVM15-3	7 1/2		200	194	187	180	171	154	131	105
AVM15-4	7 1/2		266	262	253	246	230	210	180	144
AVM15-5	10		331	320	315	303	282	256	220	174
AVM15-6	15		394	384	377	361	338	305	262	207
AVM15-7	15		463	456	446	430	404	364	312	249
AVM15-8	15		525	515	509	489	459	410	354	282
AVM15-9	20		591	577	568	545	509	459	394	312
AVM15-10	20		699	656	646	627	591	538	466	377
AVM15-12	25		801	791	781	761	720	653	564	459

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

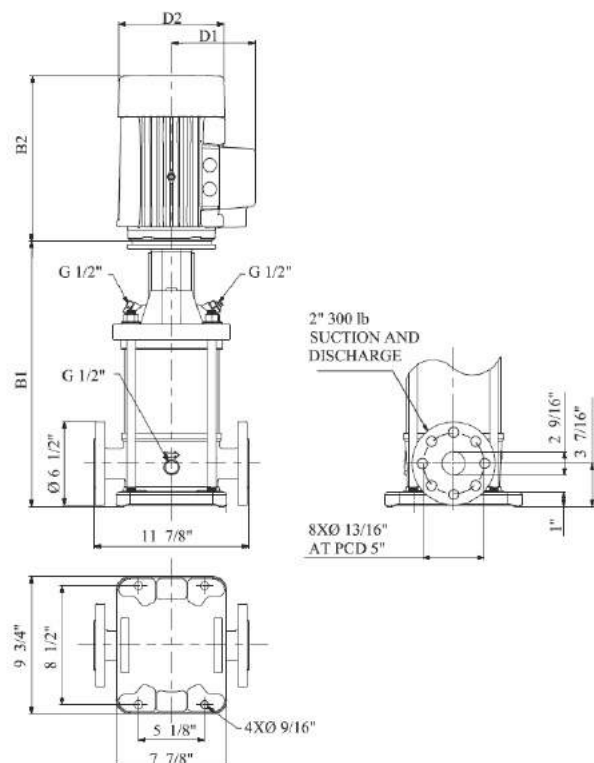
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMS, AVMN 15-1	1	16.38	28.94	7.19	5.73	130
	3	16.38	27.60	7.01	4.33	121
AVMS, AVMN 15-2	1	17.13	32.65	10.62	7.46	198
	3	17.13	32.64	8.67	5.28	195
AVMS, AVMN 15-3	1	19.21	34.74	10.22	7.62	216
	3	19.21	34.72	8.66	5.28	203
AVMS, AVMN 15-4	1	20.98	36.51	10.22	7.62	218
	3	20.98	36.49	8.66	5.28	205
AVMS, AVMN 15-5	1	22.76	38.83	10.23	10.30	333
	3	22.76	37.49	10.24	6.26	212
AVMS, AVMN 15-6	3	27.05	45.59	12.36	8.00	336
AVMS, AVMN 15-7	3	28.82	47.36	12.36	8.00	369
AVMS, AVMN 15-8	3	30.59	49.13	12.36	8.00	402
AVMS, AVMN 15-9	3	32.36	50.90	12.36	8.00	410
AVMS, AVMN 15-10	3	34.13	52.67	12.36	8.00	413
AVMS, AVMN 15-12	3	37.05	59.44	12.36	8.00	413

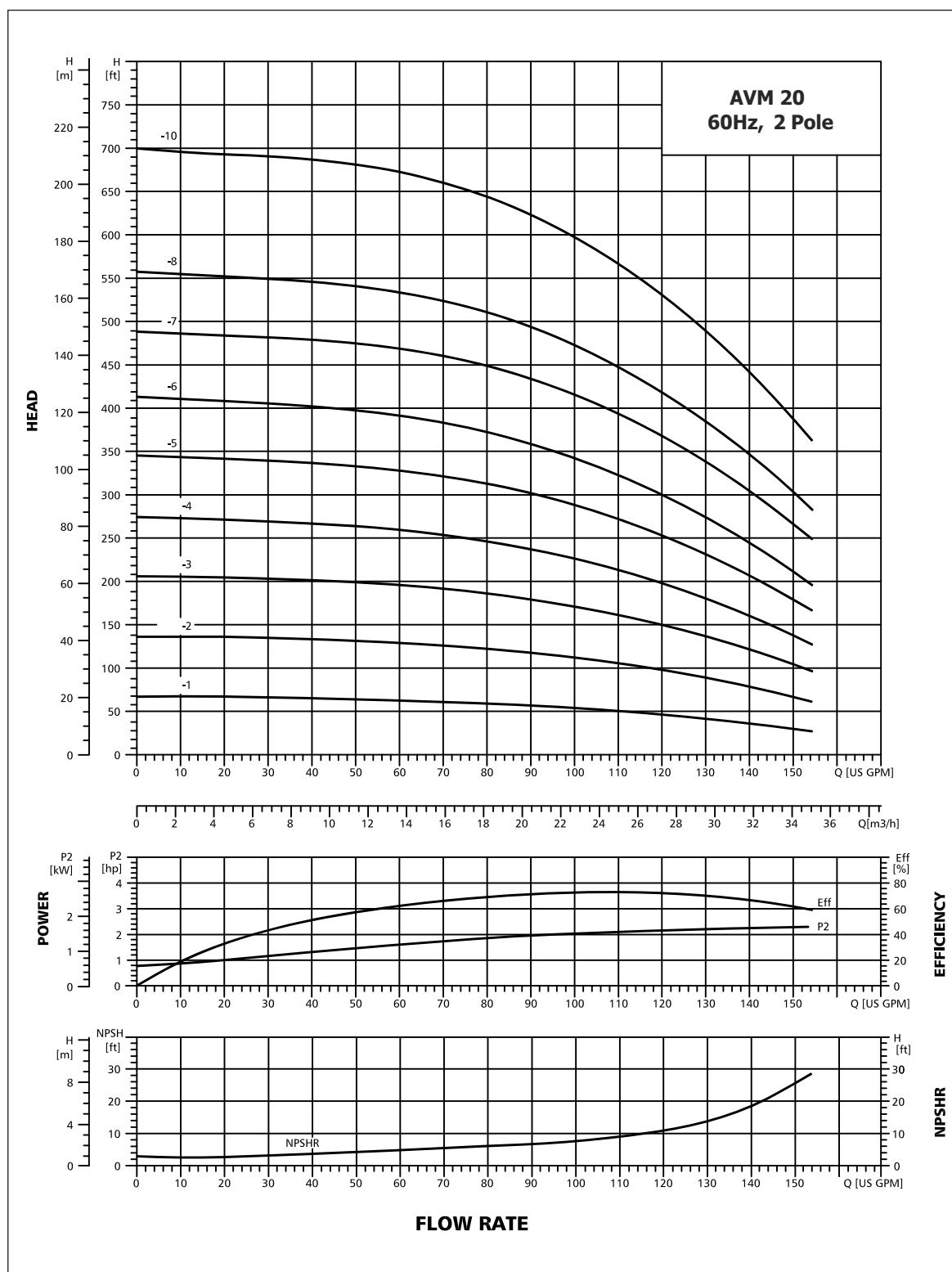
PERFORMANCE TABLE

Model	HP	m³/h USGPM	0	4	8	12	16	20	24	28
			0	18	35	53	70	88	106	123
AVMS/AVMN, 15-1	2	Head (Ft.)	69	66	62	59	52	49	43	30
AVMS/AVMN, 15-2	5		135	131	128	121	115	105	89	72
AVMS/AVMN, 15-3	7 1/2		200	194	187	180	171	154	131	105
AVMS/AVMN, 15-4	7 1/2		266	262	253	246	230	210	180	144
AVMS/AVMN, 15-5	10		331	320	315	303	282	256	220	174
AVMS/AVMN, 15-6	15		394	384	377	361	338	305	262	207
AVMS/AVMN, 15-7	15		463	456	446	430	404	364	312	249
AVMS/AVMN, 15-8	15		525	515	509	489	459	410	354	282
AVMS/AVMN, 15-9	20		591	577	568	545	509	459	394	312
AVMS/AVMN, 15-10	20		699	656	646	627	591	538	466	377
AVMS/AVMN, 15-12	25		801	791	781	761	720	653	564	459

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

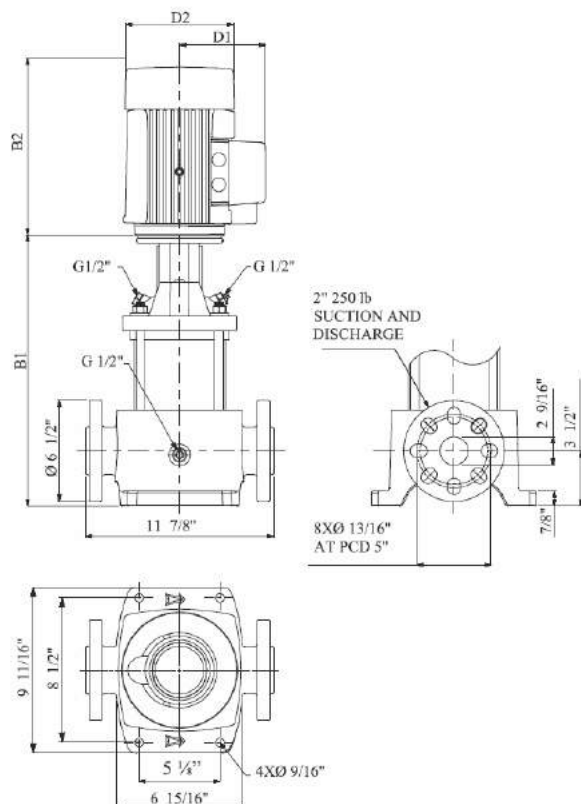
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (Lbs)
		B1	B1+B2	D1	D2	
AVM 20-1	1	17.20	31.85	8.60	6.87	181
	3	17.20	30.43	7.01	4.33	151
AVM 20-2	1	172.00	32.72	10.62	7.46	205
	3	17.20	32.71	8.66	5.28	201
AVM 20-3	1	19.29	34.82	10.22	7.62	223
	3	19.29	34.80	8.66	5.28	209
AVM 20-4	1	21.06	37.13	10.23	10.30	337
	3	21.06	35.79	10.24	6.26	214
AVM 20-5	3	25.39	43.93	12.36	8.00	369
AVM 20-6	3	27.17	45.71	12.36	8.00	373
AVM 20-7	3	28.94	47.48	12.36	8.00	409
AVM 20-8	3	30.71	49.25	12.36	8.00	413
AVM 20-10	3	33.62	56.01	12.36	8.00	413

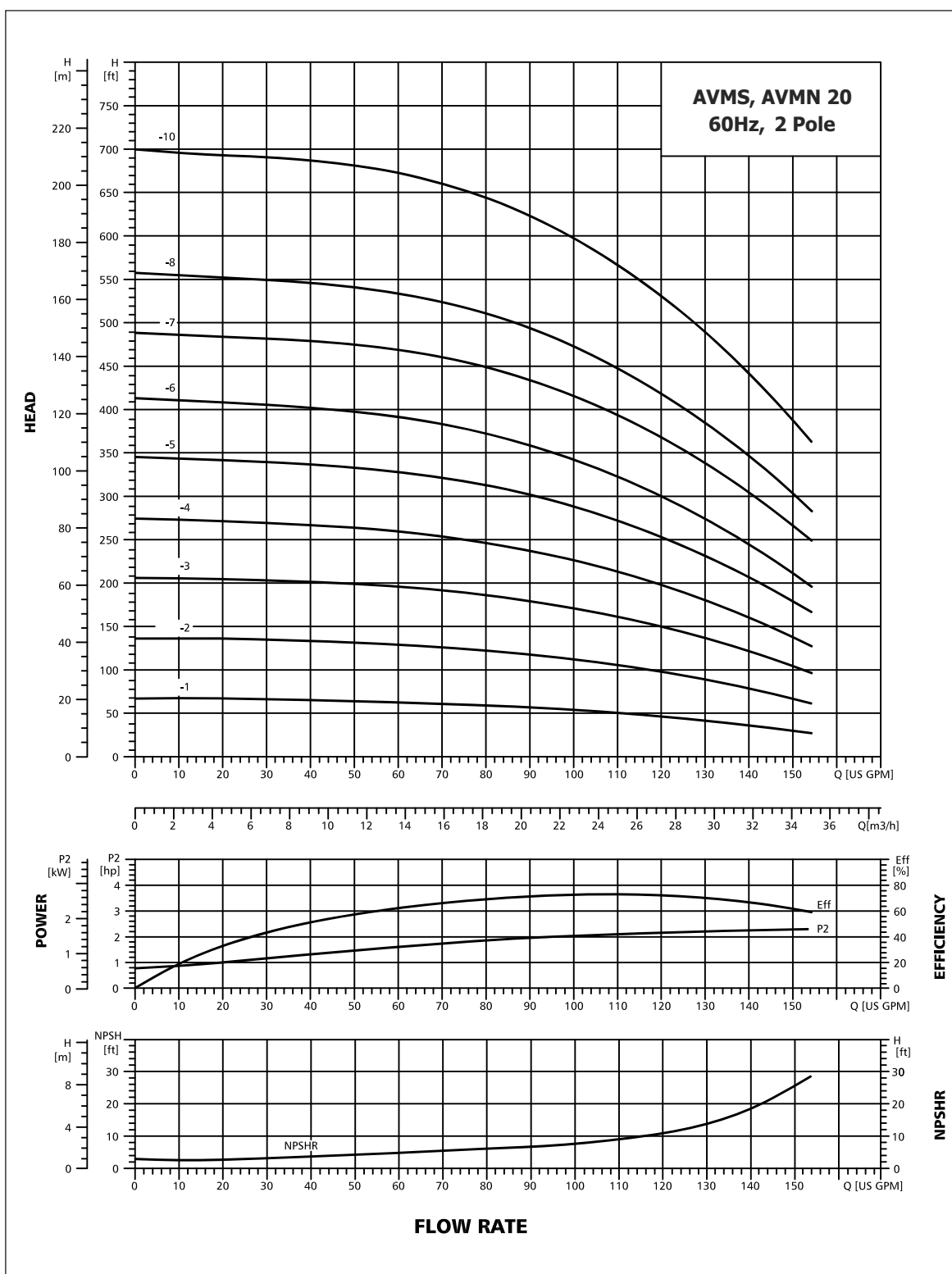
PERFORMANCE TABLE

Model	HP	m ³ /h	0	5	10	15	20	25	30	35
		USGPM	0	22	44	66	88	110	132	154
AVM20-1	3	Head (Ft.)	66	64	62	59	56	49	38	26
AVM20-2	5		138	135	131	125	118	105	86	59
AVM20-3	7 1/2		207	203	200	194	180	157	128	95
AVM20-4	10		276	272	266	256	236	213	173	128
AVM20-5	15		344	341	335	322	302	272	221	164
AVM20-6	15		410	407	397	384	361	318	263	197
AVM20-7	20		486	482	476	459	433	394	320	246
AVM20-8	20		554	548	541	525	495	446	365	282
AVM20-10	25		700	689	682	663	623	564	468	361

- * All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

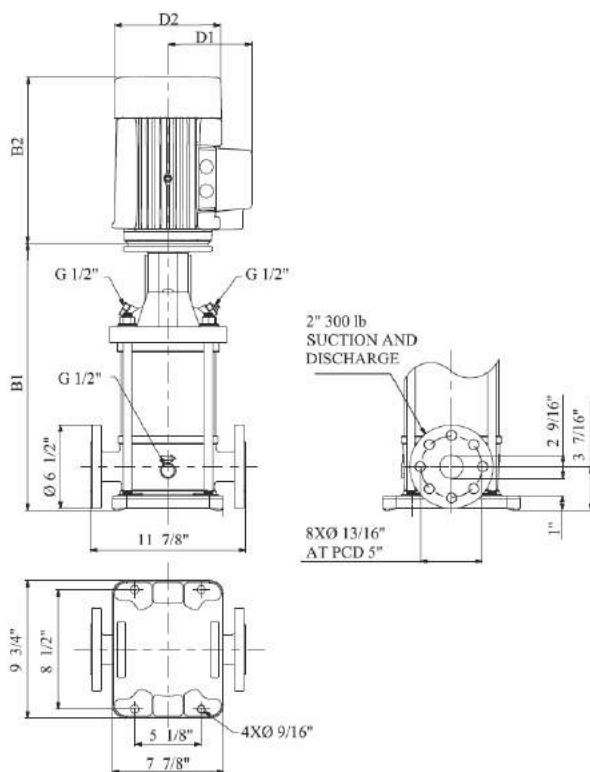
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMS, AVMN 20-1	1	17.13	31.78	8.60	6.87	174
	3	17.13	30.36	7.01	4.33	145
AVMS, AVMN 20-2	1	17.13	32.65	10.62	7.46	198
	3	17.13	32.64	8.66	5.28	195
AVMS, AVMN 20-3	1	19.21	34.74	10.22	7.62	216
	3	19.21	34.72	8.66	5.28	203
AVMS, AVMN 20-4	1	20.98	37.05	10.23	10.30	331
	3	20.98	35.71	10.24	6.26	205
AVMS, AVMN 20-5	3	25.28	43.82	12.36	8.00	362
AVMS, AVMN 20-6	3	27.05	45.59	12.36	8.00	367
AVMS, AVMN 20-7	3	28.82	47.36	12.36	8.00	402
AVMS, AVMN 20-8	3	30.59	49.13	12.36	8.00	406
AVMS, AVMN 20-10	3	35.62	58.07	12.36	8.00	407

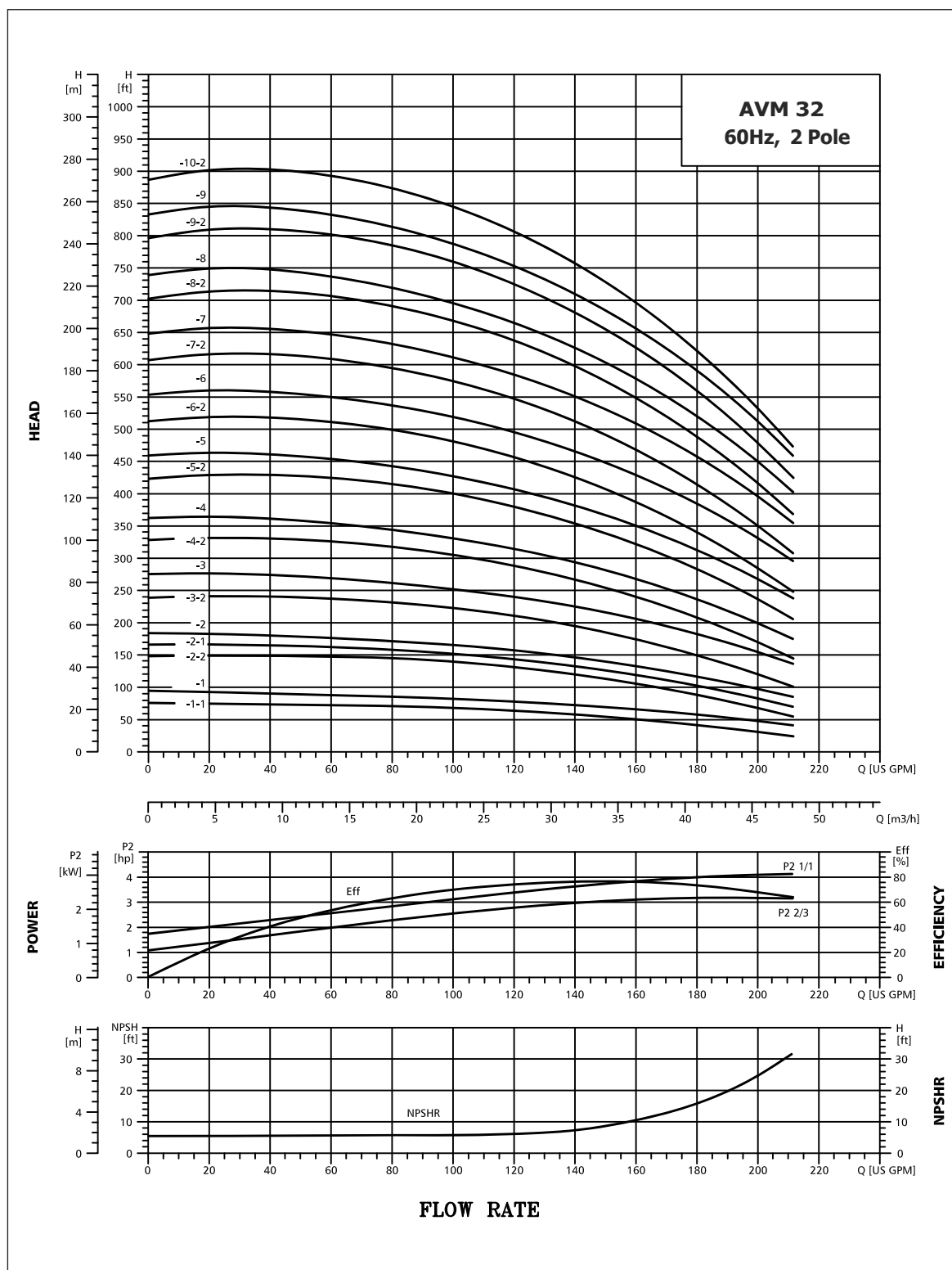
PERFORMANCE TABLE

Model	HP	m³/ h	0	5	10	15	20	25	30	35
		USGPM	0	22	44	66	88	110	132	154
AVMS/AVMN, 20-1	3	Head (Ft.)	66	64	62	59	56	49	38	26
AVMS/AVMN, 20-2	5		138	135	131	125	118	105	86	59
AVMS/AVMN, 20-3	7 1/2		207	203	200	194	180	157	128	95
AVMS/AVMN, 20-4	10		276	272	266	256	236	213	173	128
AVMS/AVMN, 20-5	15		344	341	335	322	302	272	221	164
AVMS/AVMN, 20-6	15		410	407	397	384	361	318	263	197
AVMS/AVMN, 20-7	20		486	482	476	459	433	394	320	246
AVMS/AVMN, 20-8	20		554	548	541	525	495	446	365	282
AVMS/AVMN, 20-10	25		700	689	682	663	623	564	468	361

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

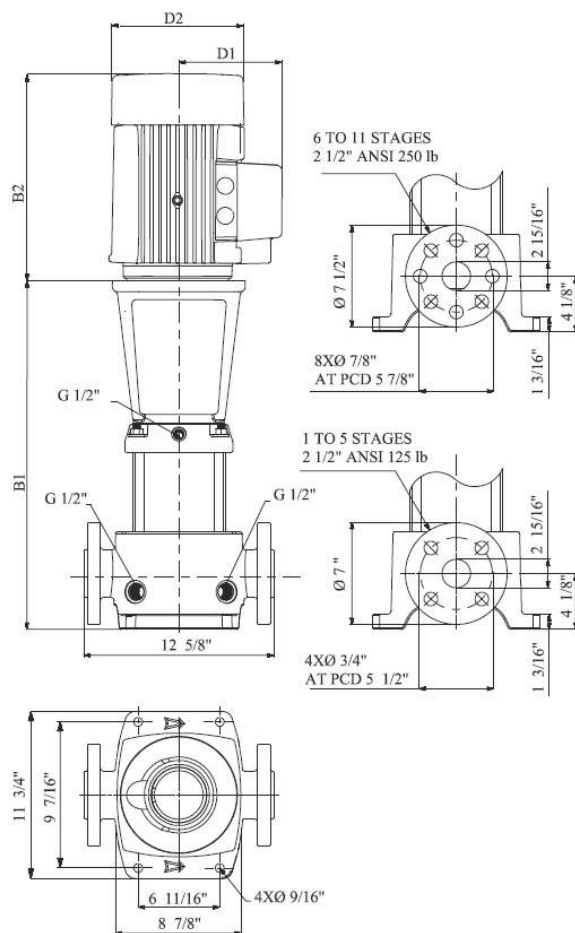
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 32-1-1	1	20.08	35.60	10.62	7.46	240
	3	19.88	35.39	8.66	5.28	218
AVM 32-1	1	20.08	35.60	10.62	7.46	228
	3	19.88	35.39	8.66	5.28	218
AVM 32-2-2	1	22.83	38.36	10.22	7.62	245
	3	22.64	38.15	8.66	5.28	229
AVM 32-2-1	1	22.83	38.36	10.22	7.62	245
	3	22.64	38.15	8.66	5.28	229
AVM 32-2	1	22.83	38.90	10.23	10.30	300
	3	22.64	37.87	10.24	6.26	229
AVM 32-3-2	1	25.59	41.66	10.23	10.30	295
	3	25.39	40.12	10.24	6.26	236
AVM 32-3	3	29.72	48.26	12.36	8.00	336
AVM 32-4-2	3	32.48	51.02	12.36	8.00	339
AVM 32-4	3	32.48	51.02	12.36	8.00	344
AVM 32-5-2	3	35.24	53.78	12.36	8.00	351
AVM 32-5	3	35.24	53.78	12.36	8.00	351
AVM 32-6-2	3	37.99	60.38	12.36	8.00	351
AVM 32-6	3	37.99	60.38	12.36	8.00	351
AVM 32-7-2	3	40.75	63.14	12.36	8.00	444
AVM 32-7	3	40.75	63.14	12.36	8.00	423
AVM 32-8-2	3	43.50	65.89	12.36	8.00	436
AVM 32-8	3	43.50	66.69	15.32	13.11	631
AVM 32-9-2	3	46.26	69.45	15.32	13.11	637
AVM 32-9	3	46.26	69.45	15.32	13.11	637
AVM 32-10-2	3	49.02	72.21	15.32	13.11	645
AVM 32-10	3	49.02	72.21	15.32	13.11	645
AVM 32-11-2	3	51.77	79.58	16.88	14.12	671

- * All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

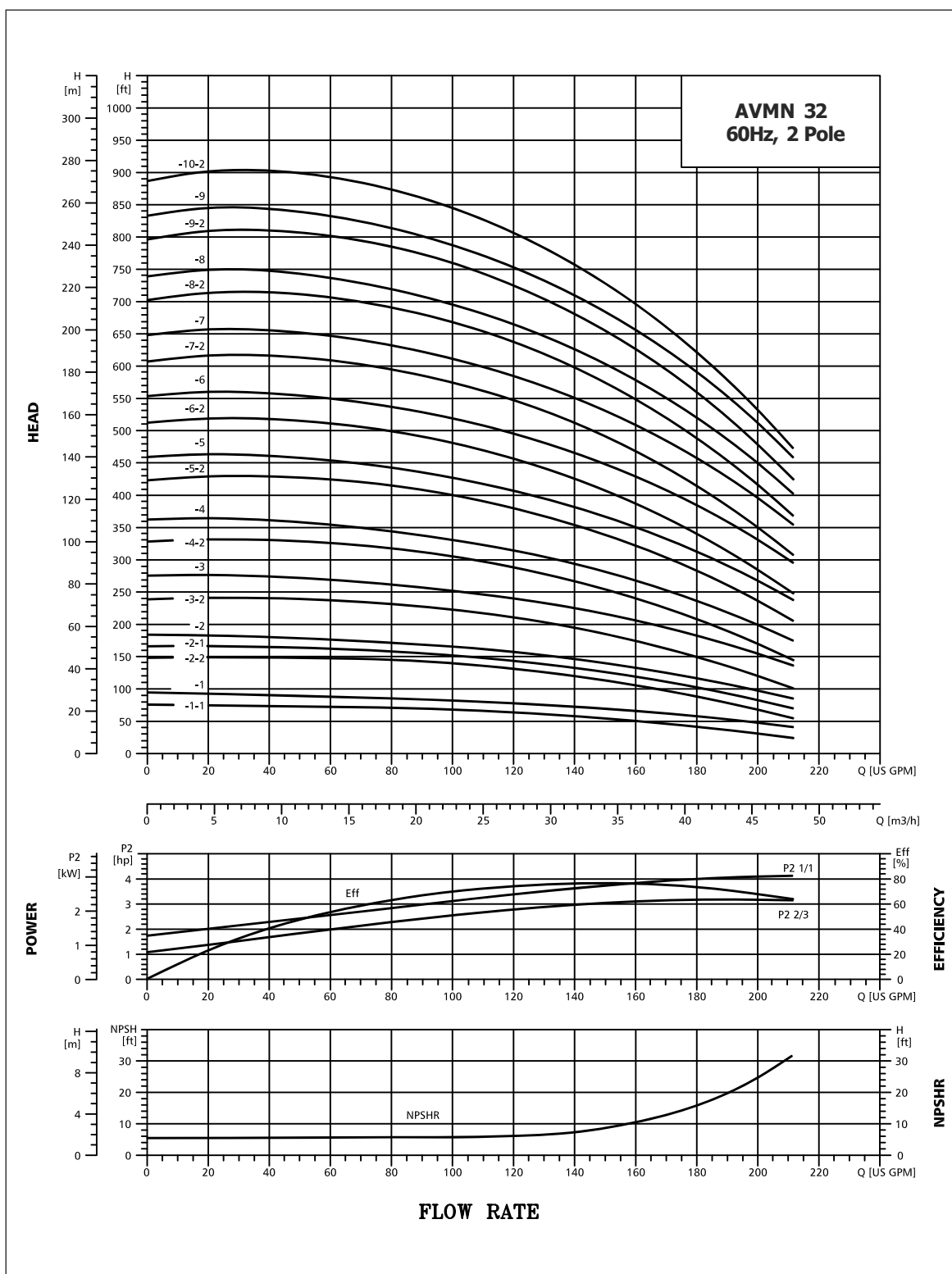
PERFORMANCE TABLE

Model	HP	m ³ /h	0	6	12	18	24	30	36	42
		USGPM	0	26	53	79	106	132	159	185
AVM 32-1-1	5	Head (Ft.)	79	75	72	69	66	59	49	39
AVM 32-1	5		95	92	89	85	79	75	66	52
AVM 32-2-2	7 1/2		148	147	145	144	138	125	108	82
AVM 32-2-1	7 1/2		165	162	160	157	150	138	121	98
AVM 32-2	10		184	180	177	171	164	151	131	112
AVM 32-3-2	10		240	235	232	230	220	203	177	141
AVM 32-3	15		276	274	272	262	249	233	207	177
AVM 32-4-2	15		331	330	328	318	302	276	243	197
AVM 32-4	20		364	361	358	344	325	302	269	226
AVM 32-5-2	20		430	427	423	413	394	364	322	272
AVM 32-5	20		463	459	456	443	420	394	351	302
AVM 32-6-2	25		518	515	512	499	476	440	390	328
AVM 32-6	25		561	557	554	538	512	479	433	371
AVM 32-7-2	30		614	610	607	594	568	525	472	400
AVM 32-7	30		656	650	646	633	604	564	512	443
AVM 32-8-2	30		712	709	702	692	659	614	551	472
AVM 32-8	40		751	745	738	722	689	643	577	505
AVM 32-9-2	40		807	804	797	787	751	699	630	541
AVM 32-9	40		843	837	833	814	778	725	659	571
AVM 32-10-2	40		902	899	886	873	833	778	702	600
AVM 32-10	40		940	930	923	900	875	820	730	635
AVM 32-11-2	50		990	988	980	970	920	830	770	665

• This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

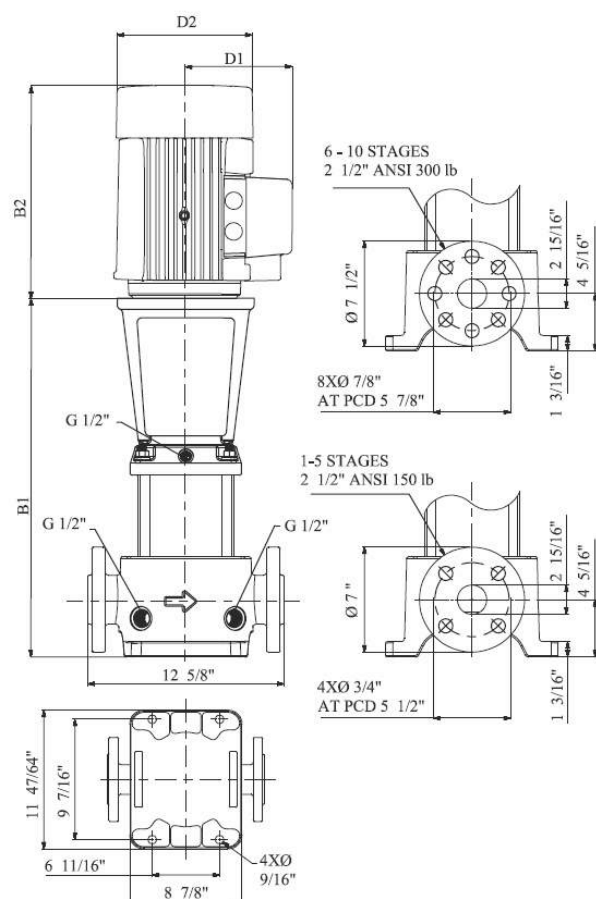
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMN 32-1-1	1	20.08	35.60	10.62	7.46	245
	3	19.88	35.39	8.66	5.28	223
AVMN 32-1	1	20.08	35.60	10.62	7.46	233
	3	19.88	35.39	8.66	5.28	223
AVMN 32-2-2	1	22.83	38.36	10.22	7.62	250
	3	22.64	38.15	8.66	5.28	234
AVMN 32-2-1	1	22.83	38.36	10.22	7.62	250
	3	22.64	38.15	8.66	5.28	234
AVMN 32-2	1	22.83	38.90	10.23	10.30	305
	3	22.64	37.87	10.24	6.26	234
AVMN 32-3-2	1	25.59	41.66	10.23	10.30	300
	3	25.39	40.12	10.24	6.26	241
AVMN 32-3	3	29.72	48.26	12.36	8.00	337
AVMN 32-4-2	3	32.48	51.02	12.36	8.00	343
AVMN 32-4	3	32.48	51.02	12.36	8.00	348
AVMN 32-5-2	3	35.24	53.78	12.36	8.00	355
AVMN 32-5	3	35.24	53.78	12.36	8.00	355
AVMN 32-6-2	3	37.99	60.38	12.36	8.00	355
AVMN 32-6	3	37.99	60.38	12.36	8.00	355
AVMN 32-7-2	3	40.75	63.14	12.36	8.00	448
AVMN 32-7	3	40.75	63.14	12.36	8.00	427
AVMN 32-8-2	3	43.50	65.89	12.36	8.00	440
AVMN 32-8	3	43.50	66.69	15.32	13.11	635
AVMN 32-9-2	3	46.26	69.45	15.32	13.11	641
AVMN 32-9	3	46.26	69.45	15.32	13.11	641
AVMN 32-10-2	3	49.02	72.21	15.32	13.11	648
AVMN 32-10	3	49.02	72.21	15.32	13.11	648
AVMN 32-11-2	3	51.77	79.58	16.88	14.12	674

* All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

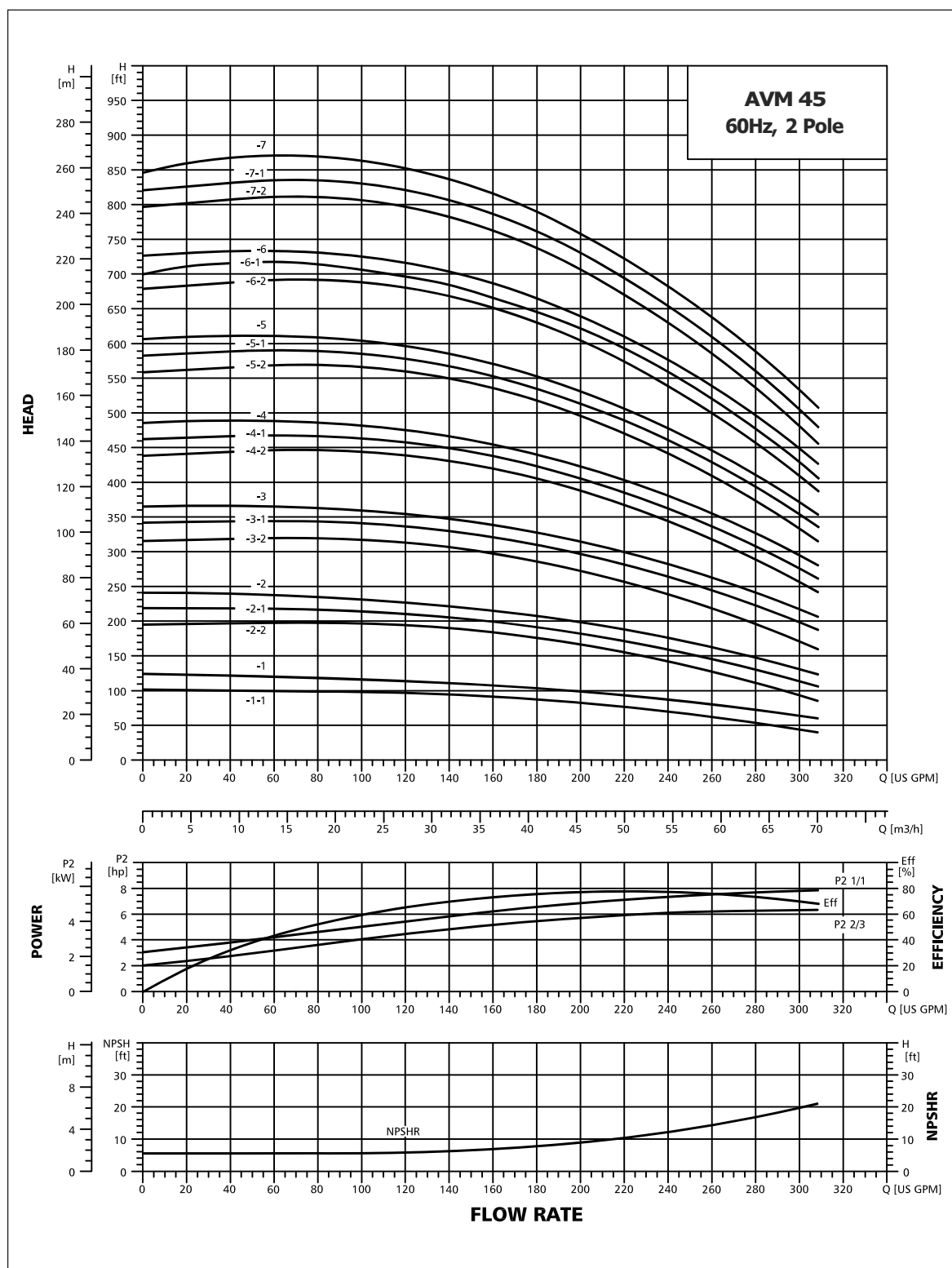
PERFORMANCE TABLE

Model	HP	m ³ /h	0	6	12	18	24	30	36	42
		USGPM	0	26	53	79	106	132	159	185
AVMN 32-1-1	5	Head (Ft.)	79	75	72	69	66	59	49	39
AVMN 32-1	5		95	92	89	85	79	75	66	52
AVMN 32-2-2	7 1/2		148	147	145	144	138	125	108	82
AVMN 32-2-1	7 1/2		165	162	160	157	150	138	121	98
AVMN 32-2	10		184	180	177	171	164	151	131	112
AVMN 32-3-2	10		240	235	232	230	220	203	177	141
AVMN 32-3	15		276	274	272	262	249	233	207	177
AVMN 32-4-2	15		331	330	328	318	302	276	243	197
AVMN 32-4	20		364	361	358	344	325	302	269	226
AVMN 32-5-2	20		430	427	423	413	394	364	322	272
AVMN 32-5	20		463	459	456	443	420	394	351	302
AVMN 32-6-2	25		518	515	512	499	476	440	390	328
AVMN 32-6	25		561	557	554	538	512	479	433	371
AVMN 32-7-2	30		614	610	607	594	568	525	472	400
AVMN 32-7	30		656	650	646	633	604	564	512	443
AVMN 32-8-2	30		712	709	702	692	659	614	551	472
AVMN 32-8	40		751	745	738	722	689	643	577	505
AVMN 32-9-2	40		807	804	797	787	751	699	630	541
AVMN 32-9	40		843	837	833	814	778	725	659	571
AVMN 32-10-2	40		902	899	886	873	833	778	702	600
AVMN 32-10	40		940	930	923	900	875	820	730	635
AVMN 32-11-2	50		990	988	980	970	920	830	770	665

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

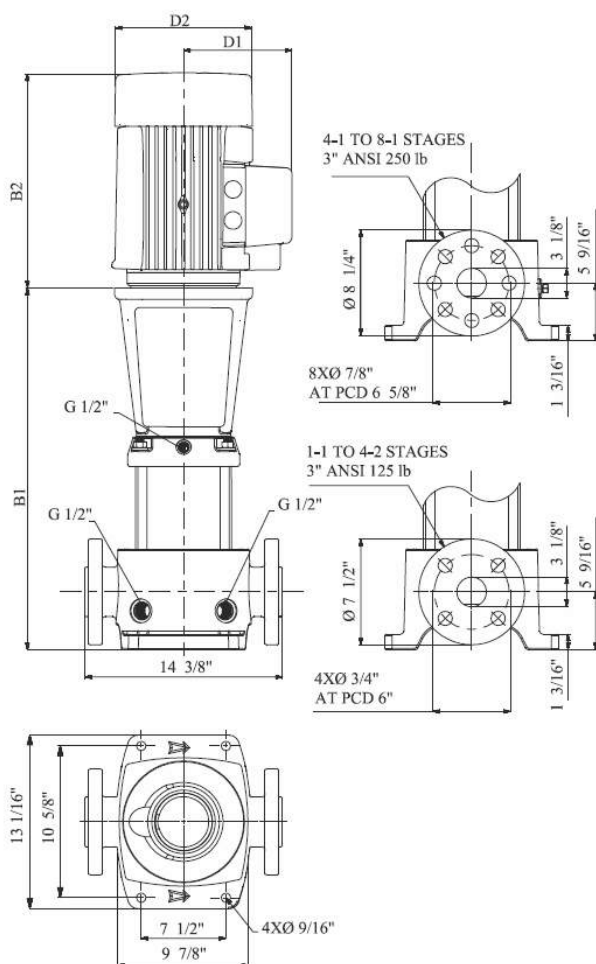
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 45-1-1	1	22.20	37.73	10.22	7.62	259
	3	22.01	37.52	8.66	5.28	243
AVM 45-1	1	22.20	38.27	10.23	10.30	314
	3	22.01	36.74	10.24	6.26	243
AVM 45-2-2	3	29.49	48.03	12.36	8.00	347
AVM 45-2-1	3	29.49	48.03	12.36	8.00	347
AVM 45-2	3	29.49	48.03	12.36	8.00	347
AVM 45-3-2	3	32.64	51.18	12.36	8.00	361
AVM 45-3-1	3	32.64	55.03	12.36	8.00	353
AVM 45-3	3	32.64	55.03	12.36	8.00	353
AVM 45-4-2	3	35.79	58.18	12.36	8.00	426
AVM 45-4-1	3	35.79	58.18	12.36	8.00	432
AVM 45-4	3	35.79	58.18	12.36	8.00	432
AVM 45-5-2	3	38.94	62.13	15.32	13.11	634
AVM 45-5-1	3	38.94	62.13	15.32	13.11	634
AVM 45-5	3	38.94	62.13	15.32	13.11	634
AVM 45-6-2	3	42.09	69.90	16.88	14.12	679
AVM 45-6	3	42.09	69.90	16.88	14.12	679
AVM 45-7-2	3	45.24	73.05	16.88	14.12	689
AVM 45-7	3	45.24	76.03	19.00	14.90	869
AVM 45-8-1	3	48.39	79.18	19.00	14.90	878

* All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
• Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

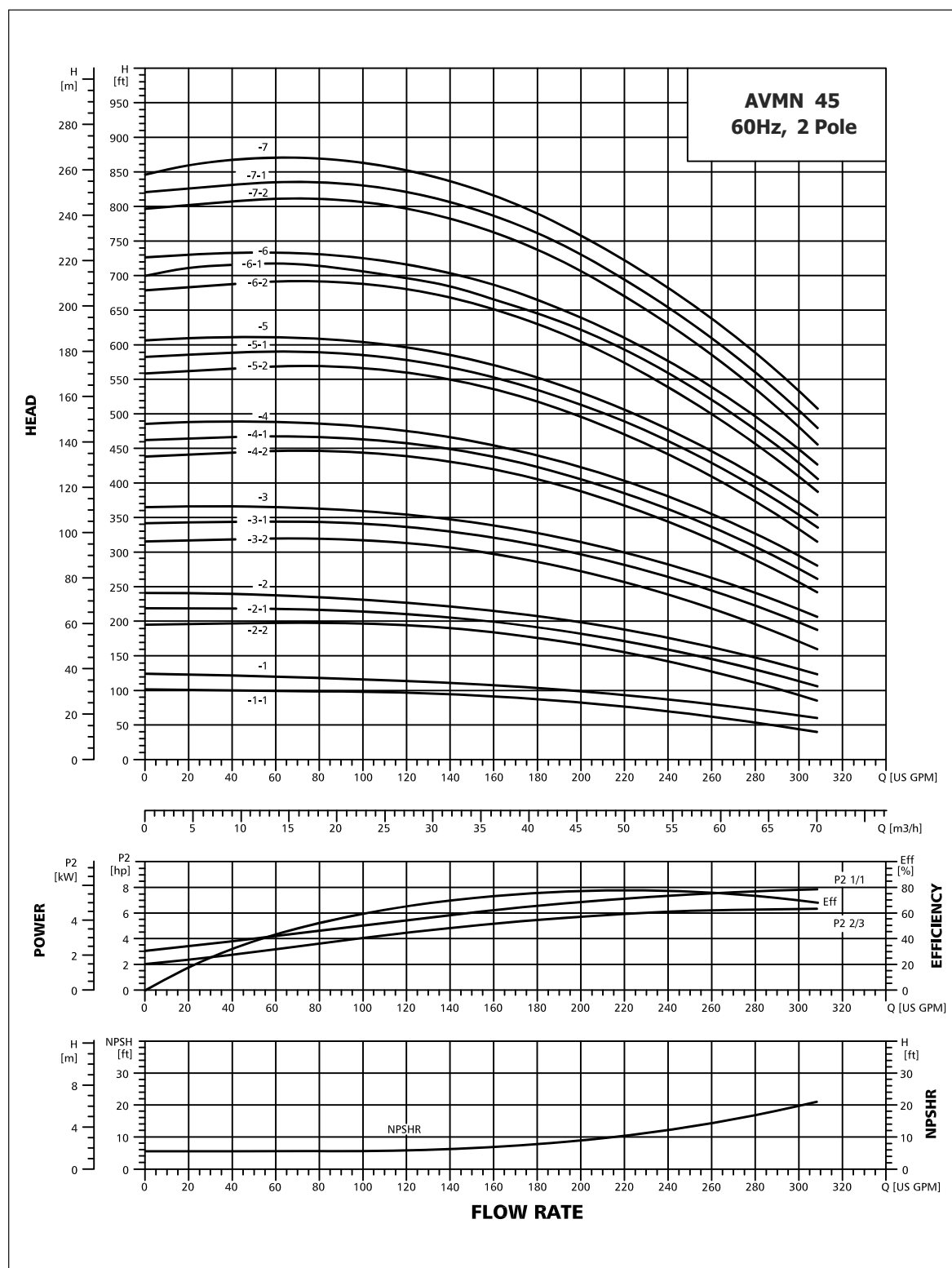
PERFORMANCE TABLE

Model	HP	m ³ /h	0	10	20	30	40	50	60	70
		USGPM	0	44	88	132	176	220	264	308
AVM45-1-1	7 1/2	Head (Ft.)	102	100	98	92	85	75	59	39
AVM45-1	10		125	121	115	112	105	92	79	59
AVM45-2-2	15		197	194	192	190	180	160	121	85
AVM45-2-1	15		217	215	213	207	194	171	141	105
AVM45-2	15		243	240	233	223	210	187	157	121
AVM45-3-2	20		318	315	312	308	285	256	213	161
AVM45-3-1	25		344	341	338	331	312	282	240	187
AVM45-3	25		366	364	361	348	328	299	256	207
AVM45-4-2	30		446	443	440	433	407	367	312	243
AVM45-4-1	30		466	463	459	453	427	384	331	262
AVM45-4	30		489	485	482	469	443	400	351	279
AVM45-5-2	40		568	564	558	551	518	469	400	315
AVM45-5-1	40		587	585	583	571	538	489	420	335
AVM45-5	40		610	607	604	590	558	505	440	354
AVM45-6-2	50		732	728	725	709	633	574	492	387
AVM45-6	50		758	751	741	738	669	610	531	427
AVM45-7-2	50		807	804	797	787	741	669	574	456
AVM45-7	60		869	855	843	840	794	722	627	509
AVM45-8-1	60		938	935	932	925	875	780	680	540

- This performance table is approximate as a performance curve.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

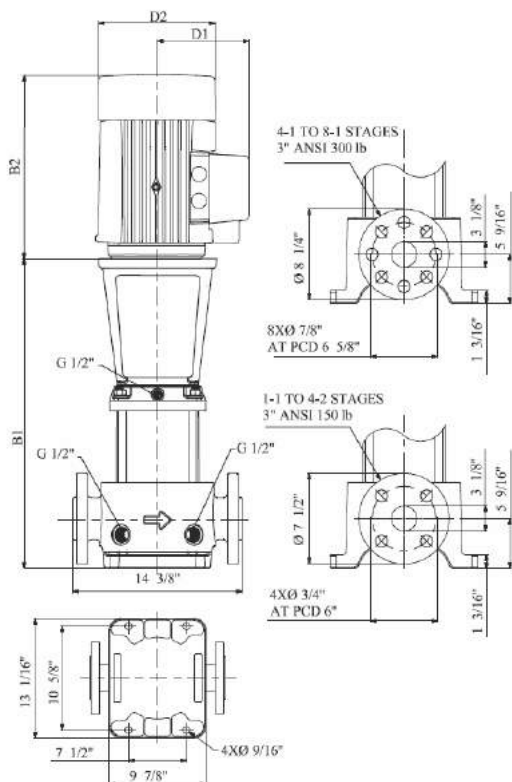
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMN 45-1-1	1	22.20	37.73	10.22	7.62	259
	3	22.01	37.52	8.66	5.28	243
AVMN 45-1	1	22.20	38.27	10.23	10.30	314
	3	22.01	36.74	10.24	6.26	243
AVMN 45-2-2	3	29.49	48.03	12.36	8.00	347
AVMN 45-2-1	3	29.49	48.03	12.36	8.00	347
AVMN 45-2	3	29.49	48.03	12.36	8.00	347
AVMN 45-3-2	3	32.64	51.18	12.36	8.00	361
AVMN 45-3-1	3	32.64	55.03	12.36	8.00	353
AVMN 45-3	3	32.64	55.03	12.36	8.00	353
AVMN 45-4-2	3	35.79	58.18	12.36	8.00	427
AVMN 45-4-1	3	35.79	58.18	12.36	8.00	430
AVMN 45-4	3	35.79	58.18	12.36	8.00	430
AVMN 45-5-2	3	38.94	62.13	15.32	13.11	632
AVMN 45-5-1	3	38.94	62.13	15.32	13.11	632
AVMN 45-5	3	38.94	62.13	15.32	13.11	632
AVMN 45-6-2	3	42.09	69.90	16.88	14.12	677
AVMN 45-6	3	42.09	69.90	16.88	14.12	677
AVMN 45-7-2	3	45.24	73.05	16.88	14.12	687
AVMN 45-7	3	45.24	76.03	19.00	14.90	867
AVMN 45-8-1	3	48.39	79.18	19.00	14.90	876

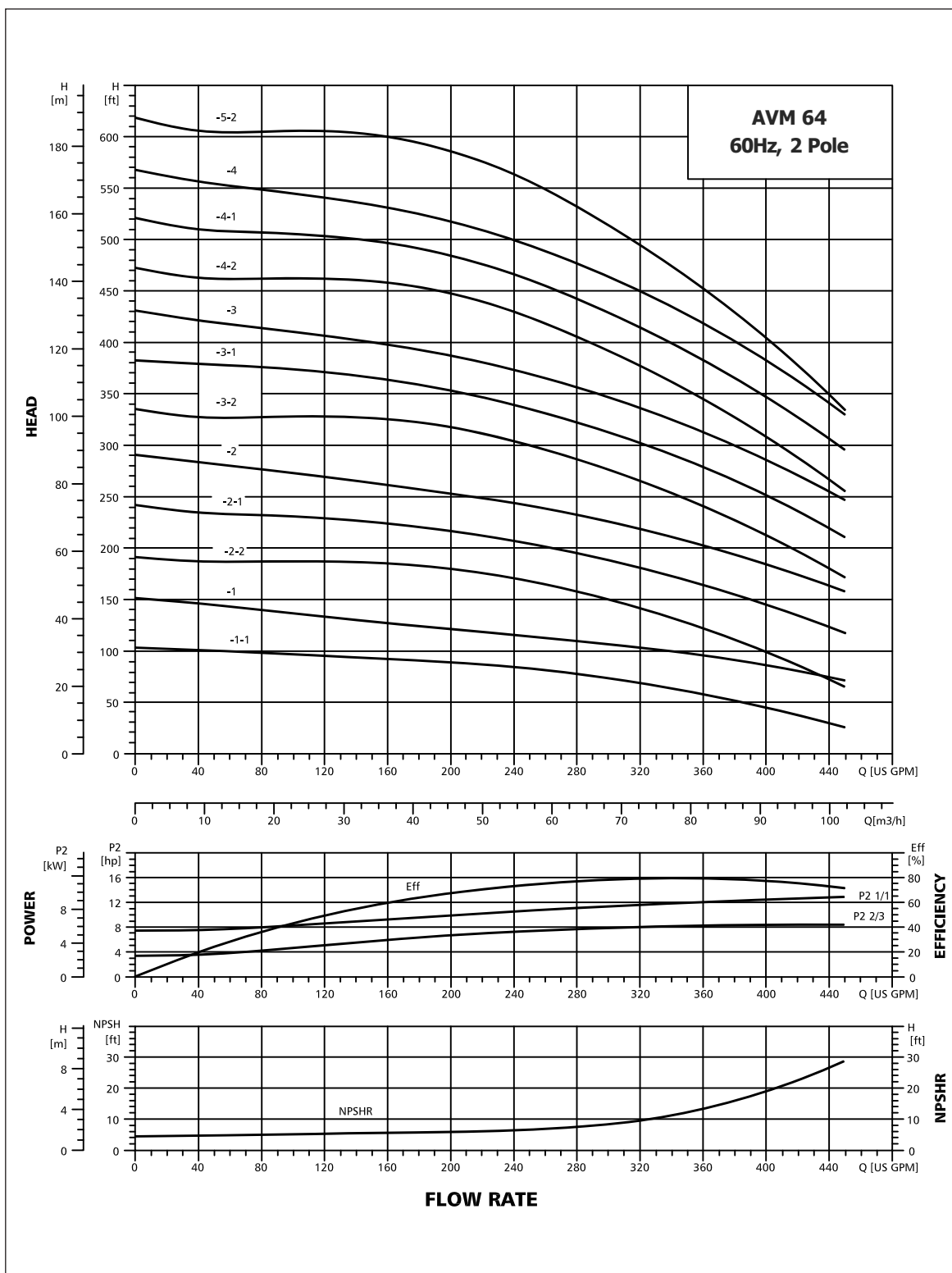
PERFORMANCE TABLE

Model	HP	m ³ /h	0	10	20	30	40	50	60	70
		USGPM	0	44	88	132	176	220	264	308
AVMN45-1-1	7 1/2	Head (Ft.)	102	100	98	92	85	75	59	39
AVMN45-1	10		125	121	115	112	105	92	79	59
AVMN45-2-2	15		197	194	192	190	180	160	121	85
AVMN45-2-1	15		217	215	213	207	194	171	141	105
AVMN45-2	15		243	240	233	223	210	187	157	121
AVMN45-3-2	20		318	315	312	308	285	256	213	161
AVMN45-3-1	25		344	341	338	331	312	282	240	187
AVMN45-3	25		366	364	361	348	328	299	256	207
AVMN45-4-2	30		446	443	440	433	407	367	312	243
AVMN45-4-1	30		466	463	459	453	427	384	331	262
AVMN45-4	30		489	485	482	469	443	400	351	279
AVMN45-5-2	40		568	564	558	551	518	469	400	315
AVMN45-5-1	40		587	585	583	571	538	489	420	335
AVMN45-5	40		610	607	604	590	558	505	440	354
AVMN45-6-2	50		732	728	725	709	633	574	492	387
AVMN45-6	50		758	751	741	738	669	610	531	427
AVMN45-7-2	50		807	804	797	787	741	669	574	456
AVMN45-7	60		869	855	843	840	794	722	627	509
AVMN45-8-1	60		938	935	932	925	875	780	680	540

- * All dimension & weight may deviate up to ± 0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

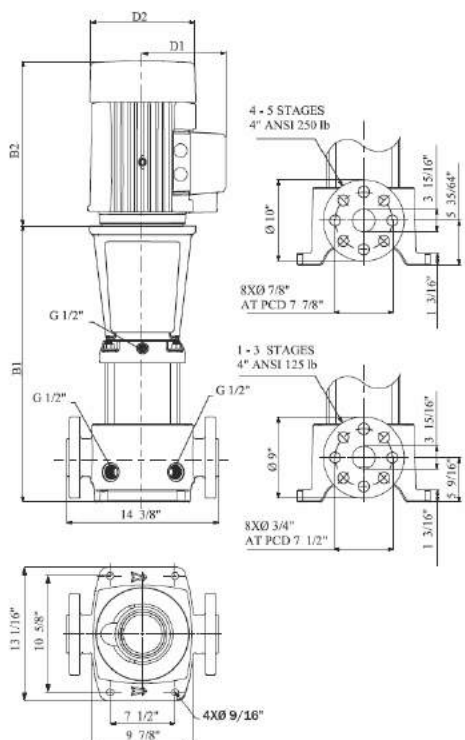
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 64-1-1	1	22.09	38.16	10.23	10.30	268
	3	22.09	36.82	10.24	6.26	252
AVM 64-1	3	26.42	44.96	12.36	8.00	348
	3	29.69	48.23	12.36	8.00	363
AVM 64-2-1	3	29.69	48.23	12.36	8.00	363
AVM 64-2	3	29.69	52.08	12.36	8.00	355
AVM 64-3-2	3	32.91	55.30	12.36	8.00	430
AVM 64-3-1	3	32.91	56.10	15.32	13.11	624
AVM 64-3	3	32.91	56.10	15.32	13.11	624
AVM 64-4-2	3	36.18	59.37	15.32	13.11	624
AVM 64-4-1	3	36.18	63.99	16.88	14.12	676
AVM 64-4	3	36.18	63.99	16.88	14.12	676
AVM 64-5-2	3	39.41	70.20	19.00	14.90	866

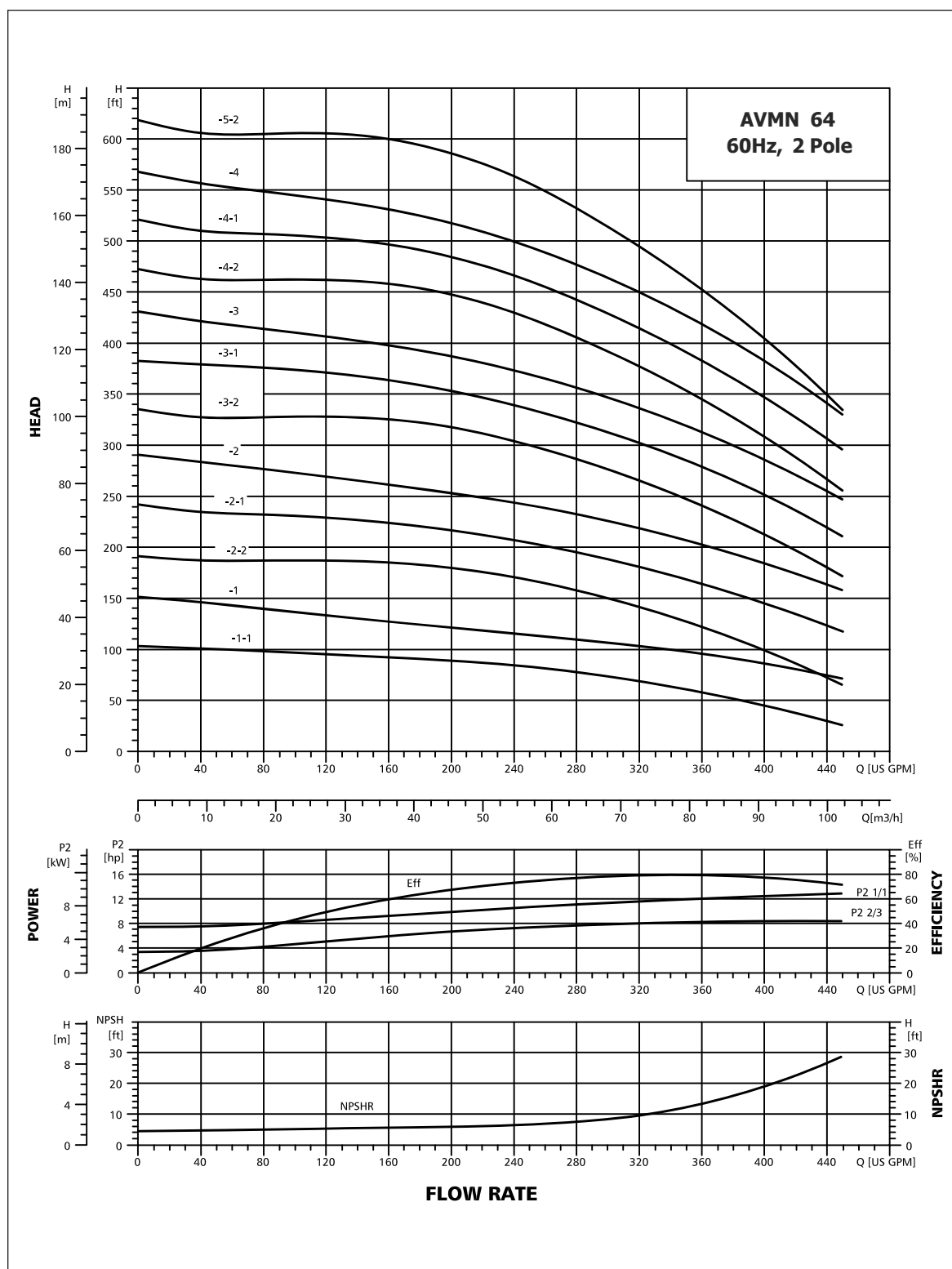
PERFORMANCE TABLE

Model	HP	m³/h	0	10	25	40	55	70	85	100
		USGPM	0	44	110	176	242	308	374	440
AVM64-1-1	10	Head (Ft)	105	102	95	89	82	72	52	30
AVM64-1	15		151	144	135	121	115	105	92	72
AVM64-2-2	20		190	187	185	180	171	148	115	75
AVM64-2-1	20		243	233	230	220	207	184	157	121
AVM64-2	25		289	282	272	256	243	220	197	164
AVM64-3-2	30		338	332	328	322	305	272	230	180
AVM64-3-1	40		381	377	374	361	338	308	269	217
AVM64-3	40		433	420	407	394	371	341	302	253
AVM64-4-2	40		472	465	459	453	430	384	331	266
AVM64-4-1	50		518	509	505	492	466	423	371	305
AVM64-4	50		568	554	541	525	499	459	407	341
AVM64-5-2	60		617	611	607	594	564	505	436	348

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
 • This performance table is approximate as performance curve.
 • Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

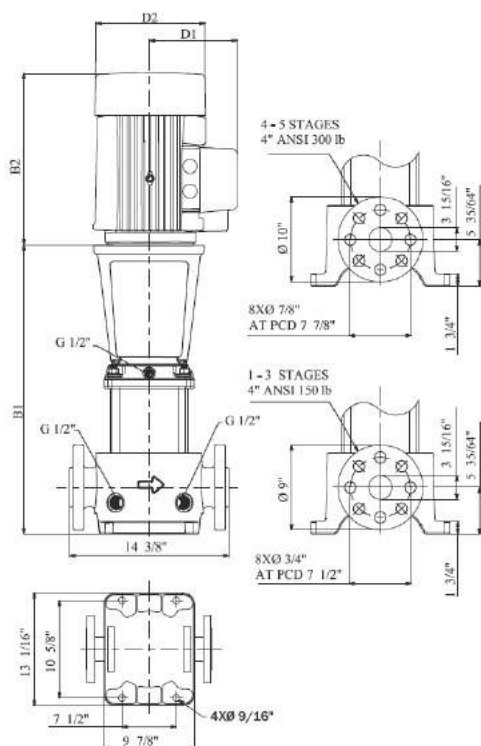
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMN 64-1-1	1	22.09	38.16	10.23	10.30	269
	3	22.09	36.82	10.24	6.26	253
AVMN 64-1	3	26.42	44.96	12.36	8.00	349
AVMN 64-2-2	3	29.69	48.23	12.36	8.00	364
AVMN 64-2-1	3	29.69	48.23	12.36	8.00	364
AVMN 64-2	3	29.69	52.08	12.36	8.00	357
AVMN 64-3-2	3	32.91	55.30	12.36	8.00	432
AVMN 64-3-1	3	32.91	56.10	15.32	13.11	625
AVMN 64-3	3	32.91	56.10	15.32	13.11	625
AVMN 64-4-2	3	36.18	59.37	15.32	13.11	625
AVMN 64-4-1	3	36.18	63.99	16.88	14.12	678
AVMN 64-4	3	36.18	63.99	16.88	14.12	678
AVMN 64-5-2	3	39.41	70.20	19.00	14.90	868

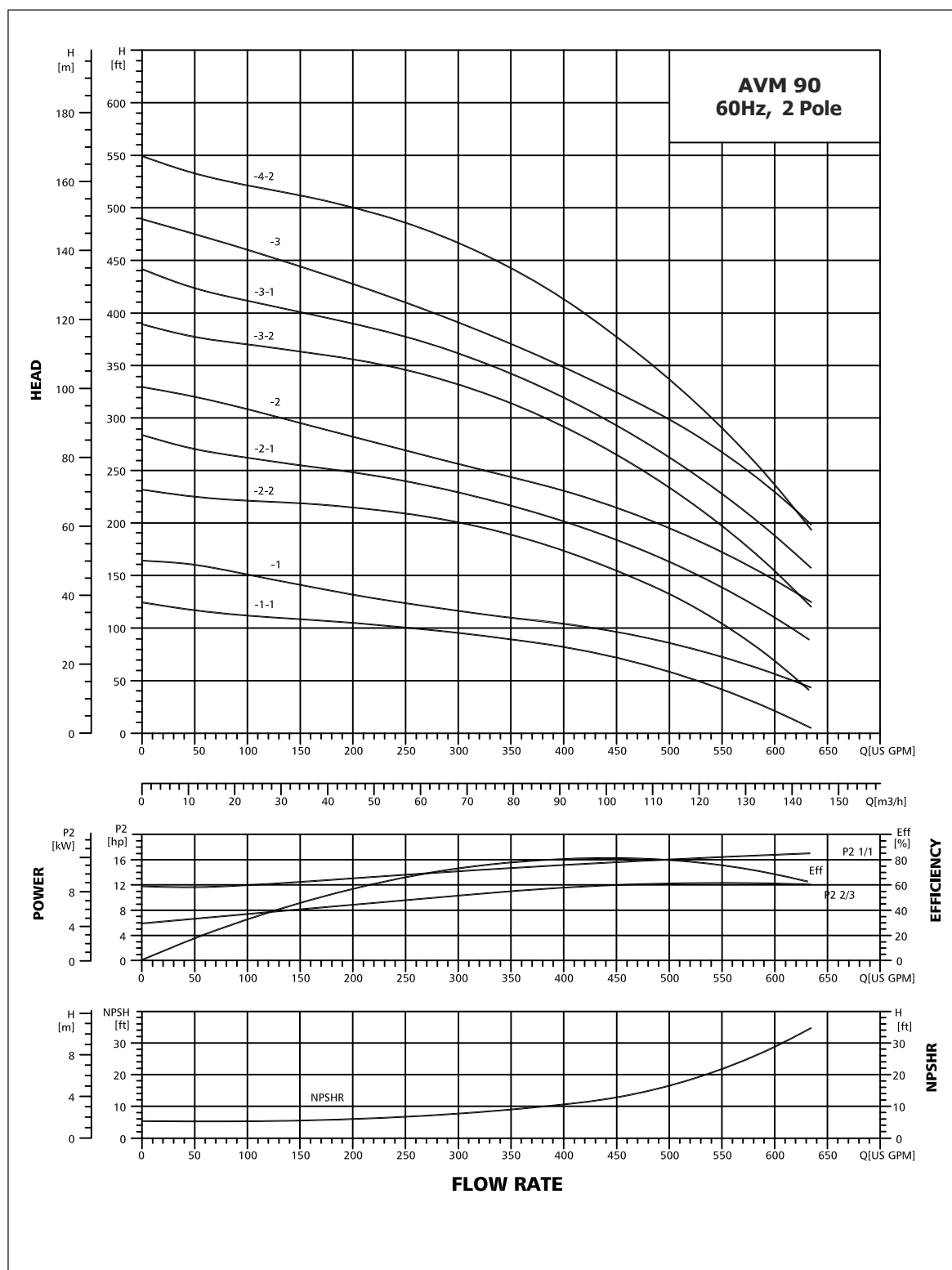
PERFORMANCE TABLE

Model	HP	m ³ /h	0	10	25	40	55	70	85	100
		USGPM	0	44	110	176	242	308	374	440
AVMN64-1-1	10	Head (Ft)	105	102	95	89	82	72	52	30
AVMN64-1	15		151	144	135	121	115	105	92	72
AVMN64-2-2	20		190	187	185	180	171	148	115	75
AVMN64-2-1	20		243	233	230	220	207	184	157	121
AVMN64-2	25		289	282	272	256	243	220	197	164
AVMN64-3-2	30		338	332	328	322	305	272	230	180
AVMN64-3-1	40		381	377	374	361	338	308	269	217
AVMN64-3	40		433	420	407	394	371	341	302	253
AVMN64-4-2	40		472	465	459	453	430	384	331	266
AVMN64-4-1	50		518	509	505	492	466	423	371	305
AVMN64-4	50		568	554	541	525	499	459	407	341
AVMN64-5-2	60		617	611	607	594	564	505	436	348

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

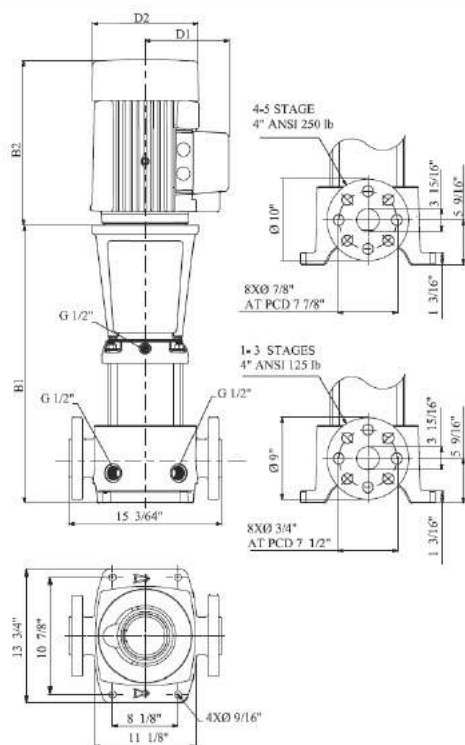
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 90-1-1	3	26.81	45.50	12.36	8.00	358
AVM 90-1	3	26.81	45.35	12.36	8.00	363
AVM 90-2-2	3	30.43	52.82	12.36	8.00	367
AVM 90-2-1	3	30.43	52.82	12.36	8.00	432
AVM 90-2	3	30.43	53.62	15.32	13.11	625
AVM 90-3-2	3	34.06	57.25	15.32	13.11	636
AVM 90-3-1	3	34.06	61.87	16.88	14.12	667
AVM 90-3	3	34.06	61.87	16.88	14.12	667
AVM 90-4-2	3	37.68	68.47	19.00	14.90	869
AVM 90-4-1	3	37.68	68.47	19.00	14.90	869

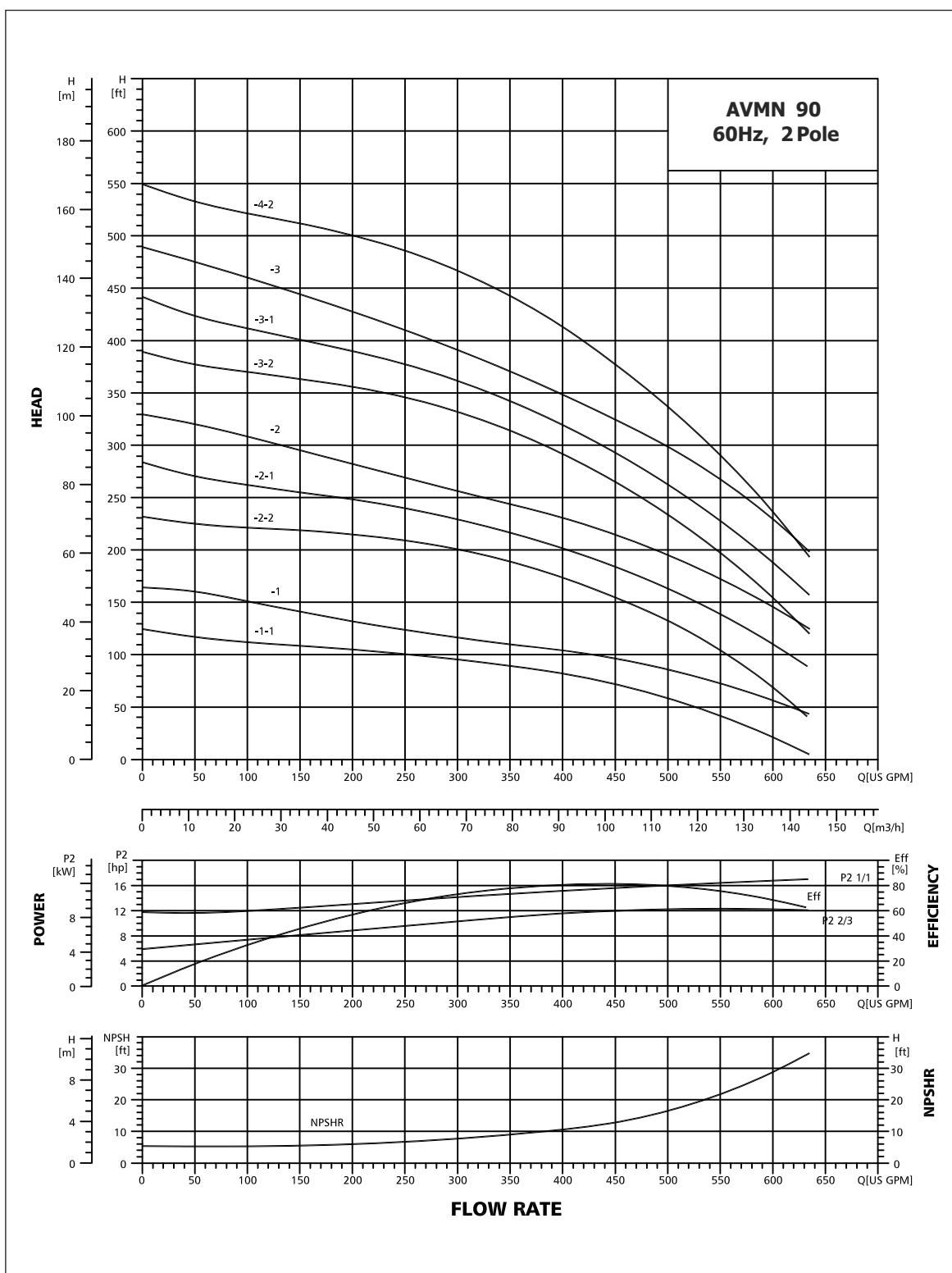
PERFORMANCE TABLE

Model	HP	m ³ /h	0	20	40	60	80	100	120	140
		USGPM	0	88	176	264	352	440	528	616
AVM90-1-1	15	Head (Ft.)	125	112	105	98	89	75	49	13
AVM90-1	20		164	154	138	121	108	95	79	49
AVM90-2-2	25		233	223	217	207	187	157	118	56
AVM90-2-1	30		282	262	249	236	217	187	151	98
AVM90-2	40		328	312	285	266	243	217	184	138
AVM90-3-2	40		387	374	358	341	315	269	213	138
AVM90-3-1	50		443	413	394	374	341	299	243	174
AVM90-3	50		522	466	436	404	367	328	282	217
AVM90-4-2	60		548	525	505	482	443	384	312	217
AVM90-4-1	60		595	570	545	512	472	415	350	254

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

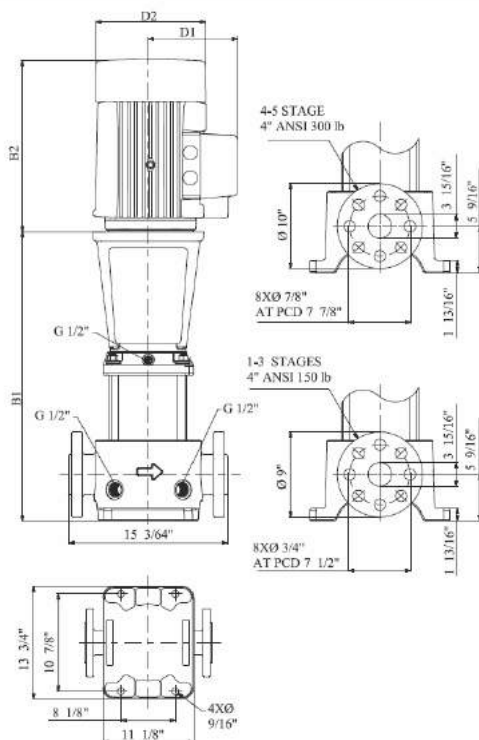
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVMN 90-1-1	3	26.81	45.50	12.36	8.00	364
AVMN 90-1	3	26.81	45.35	12.36	8.00	369
AVMN 90-2-2	3	30.43	52.82	12.36	8.00	372
AVMN 90-2-1	3	30.43	52.82	12.36	8.00	450
AVMN 90-2	3	30.43	53.62	15.32	13.11	631
AVMN 90-3-2	3	34.06	57.25	15.32	13.11	342
AVMN 90-3-1	3	34.06	61.87	16.88	14.12	668
AVMN 90-3	3	34.06	61.87	16.88	14.12	672
AVMN 90-4-2	3	37.68	68.47	19.00	14.90	876
AVMN 90-4-1	3	37.68	68.47	19.00	14.90	876

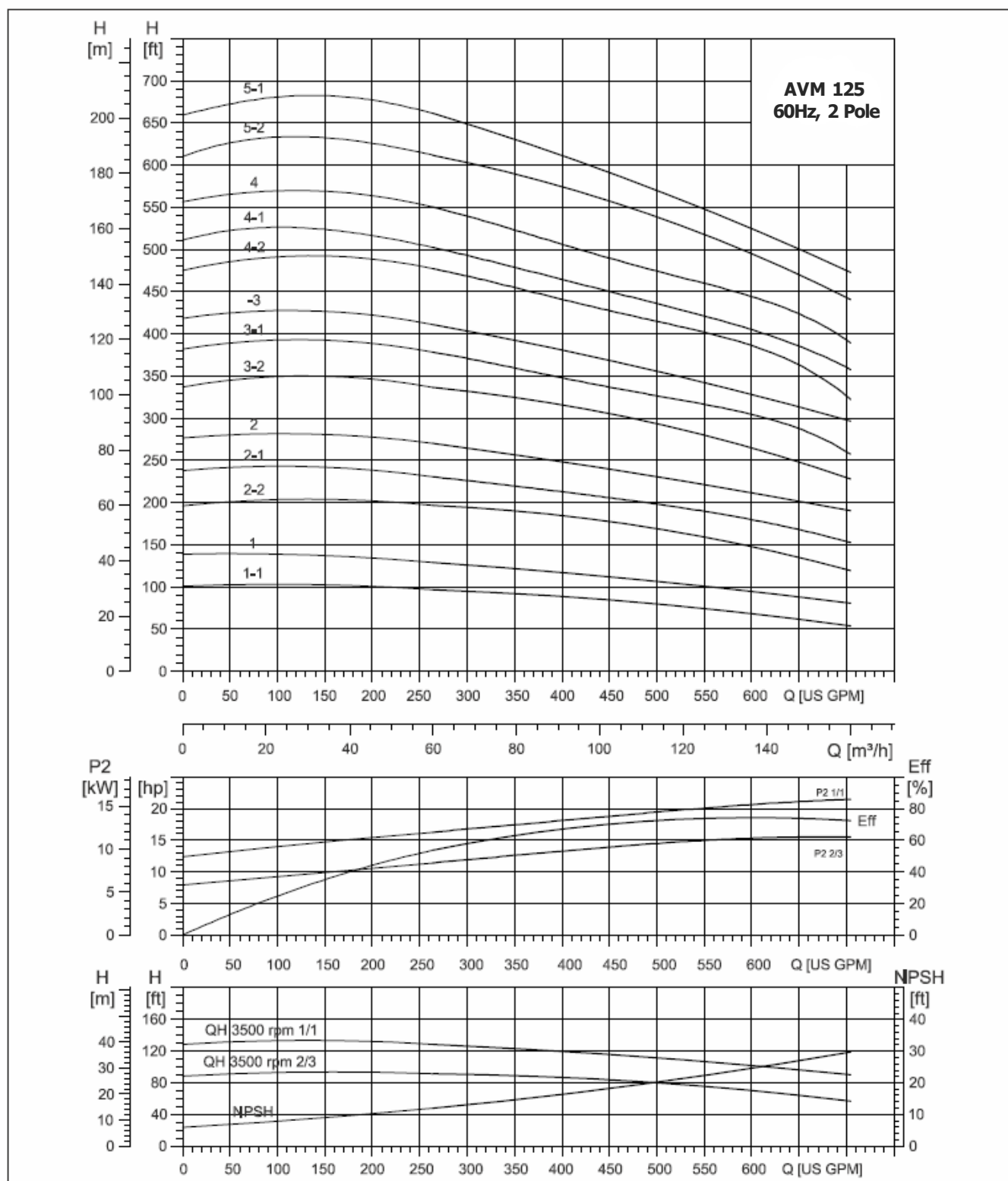
PERFORMANCE TABLE

Model	HP	m3/h	0	20	40	60	80	100	120	140
		USGPM	0	88	176	264	352	440	528	616
AVMN90-1-1	15	Head (Ft.)	125	112	105	98	89	75	49	13
AVMN90-1	20		164	154	138	121	108	95	79	49
AVMN90-2-2	25		233	223	217	207	187	157	118	56
AVMN90-2-1	30		282	262	249	236	217	187	151	98
AVMN90-2	40		328	312	285	266	243	217	184	138
AVMN90-3-2	40		387	374	358	341	315	269	213	138
AVMN90-3-1	50		443	413	394	374	341	299	243	174
AVMN90-3	50		522	466	436	404	367	328	282	217
AVMN90-4-2	60		548	525	505	482	443	384	312	217
AVMN90-4-1	60		595	570	545	512	472	415	350	254

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

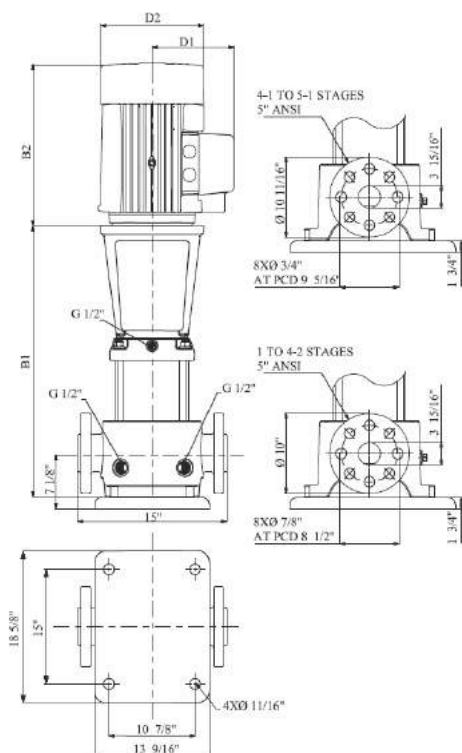
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (lbs)
		B1	B1+B2	D1	D2	
AVM 125-1-1	3	32.83	51.37	12.36	8.00	432
AVM 125-1	3	32.83	55.22	12.36	8.00	424
AVM 125-2-2	3	38.98	62.17	15.32	13.11	704
AVM 125-2-1	3	98.98	62.17	16.88	13.11	704
AVM 125-2	3	38.98	66.79	19.00	14.12	735
AVM 125-3-2	3	45.08	75.87	19.00	14.90	936
AVM 125-3-1	3	45.08	75.87	19.00	14.90	936
AVM 125-3	3	45.08	75.87	19.00	14.90	1045
AVM 125-4-2	3	51.69	82.48	19.00	14.90	1199
AVM 125-4-1	3	51.69	82.51	19.00	17.38	1468
AVM 125-4	3	51.69	82.51	19.00	17.38	1468
AVM 125-5-2	3	57.80	88.62	19.00	17.38	1490
AVM 125-5-1	3	57.80	-	-	-	1191

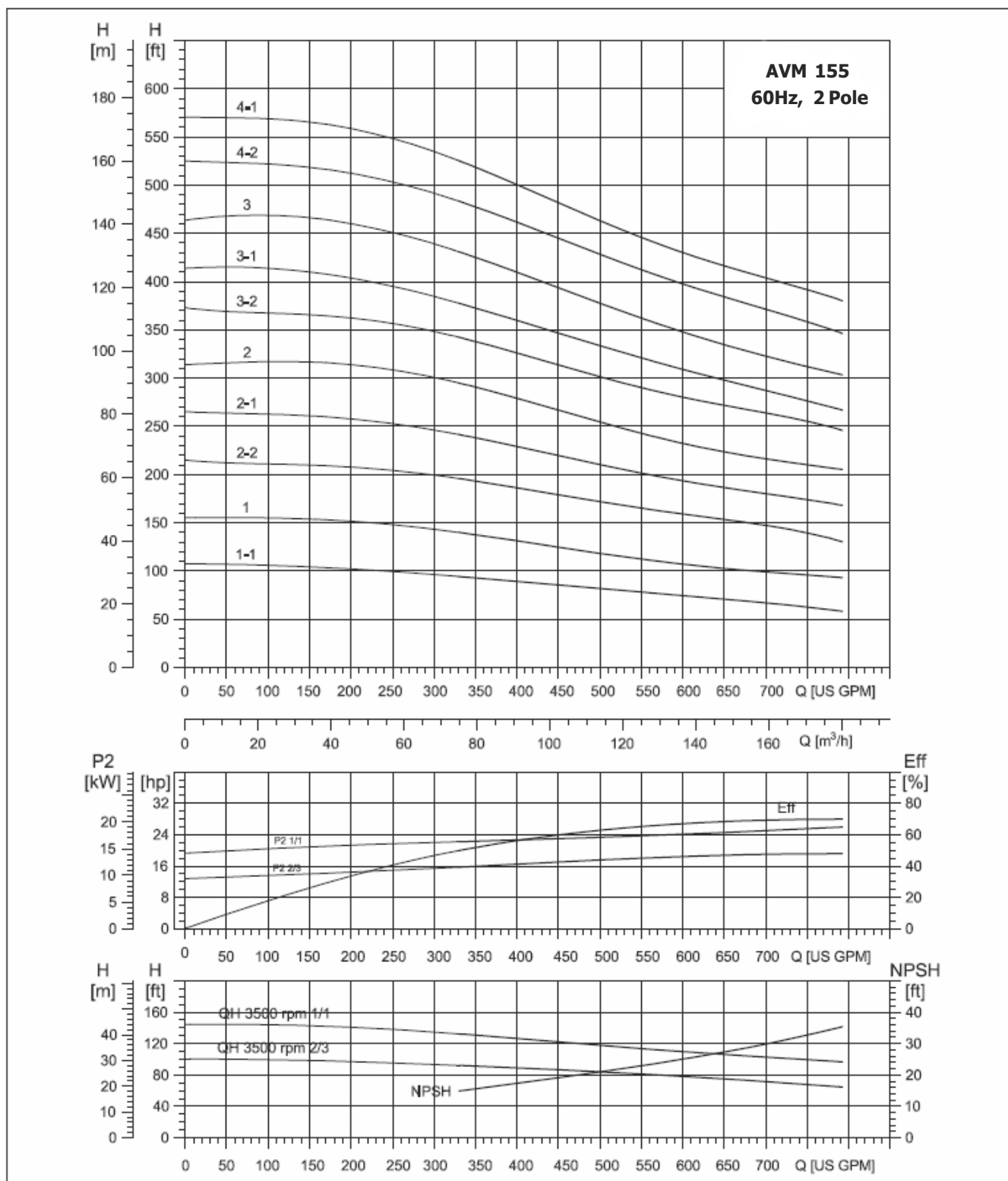
PERFORMANCE TABLE

Model	HP	m ³ /h	0	30	50	70	90	110	130	150
		USGPM	0	132	220	308	396	484	572	660
AVM125-1-1	20	Head (Ft.)	105	103	100	95	90	85	75	70
AVM125-1	25		141	138	131	125	118	108	98	89
AVM125-2-2	40		207	203	200	190	180	171	154	138
AVM125-2-1	40		246	240	236	220	213	200	184	164
AVM125-2	50		282	276	272	262	249	236	220	203
AVM125-3-2	60		350	343	340	330	320	300	275	250
AVM125-3-1	60		394	390	384	371	348	331	312	282
AVM125-3	75		423	417	413	394	384	348	325	295
AVM125-4-2	75		490	480	475	465	445	425	400	365
AVM125-4-1	100		528	512	509	499	472	449	417	377
AVM125-4	100		570	560	555	540	510	470	460	425
AVM125-5-2	100		635	625	610	600	575	545	515	470
AVM125-5-1	125		680	665	660	645	615	580	550	502

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
- This performance table is approximate as performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

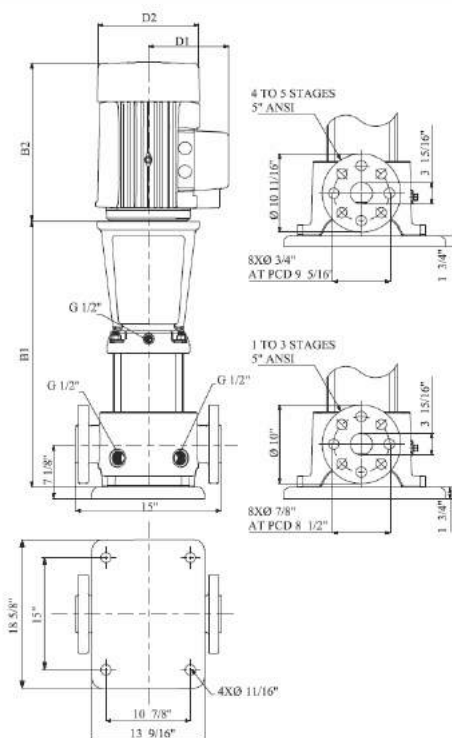
PERFORMANCE CURVES



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



*Dimensions and Weight

Model	Ph.	Size in Inch				Weight (Lbs)
		B1	B1+B2	D1	D2	
AVM 155-1-1	3	32.83	55.22	12.36	8.00	424
AVM 155-1	3	32.83	55.22	12.36	8.00	490
AVM 155-2-2	3	38.98	62.17	15.32	13.11	705
AVM 155-2-1	3	38.98	66.79	16.88	14.12	735
AVM 155-2	3	38.98	69.77	19.00	14.90	915
AVM 155-3-2	3	45.55	76.34	19.00	14.90	1178
AVM 155-3-1	3	45.55	76.34	19.00	14.90	1178
AVM 155-3	3	45.55	76.37	19.00	17.38	1215
AVM 155-4-2	3	51.69	82.51	19.00	17.38	1234
AVM 155-4-1	3	51.69	82.51	19.00	17.38	1234

PERFORMANCE TABLE

Model	HP	m ³ /h	0	50	70	90	110	130	150	170
		USGPM	0	220	308	396	484	572	660	748
AVM155-1-1	25	Head (Ft.)	108	102	95	89	85	82	75	62
AVM155-1	30		157	148	141	135	121	112	108	95
AVM155-2-2	40		220	213	200	190	180	174	167	144
AVM155-2-1	50		269	256	246	233	213	200	197	171
AVM155-2	60		312	308	299	282	256	243	236	217
AVM155-3-2	75		377	361	348	335	305	285	275	253
AVM155-3-1	75		463	453	435	410	384	354	348	310
AVM155-3	100		465	460	436	415	385	355	340	312
AVM155-4-2	100		531	515	492	469	440	413	387	371
AVM155-4-1	100		570	555	530	500	475	440	425	395

- * All dimension & weight may deviate up to ±0.5 inch & 3 lbs.
 • This performance table is approximate as performance curve.
 • Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

MOTOR DATA

The pump is fitted with a TEFC (totally enclosed fan cooled), squirrel-cage, two pole motor.

These motors are NEMA energy efficient C-frame mounting.

All motors have heavy-duty bearings for maximum thrust requirements.

Single phase motors are supplied with a built-in thermal overload relay. The motors required no more further protection.

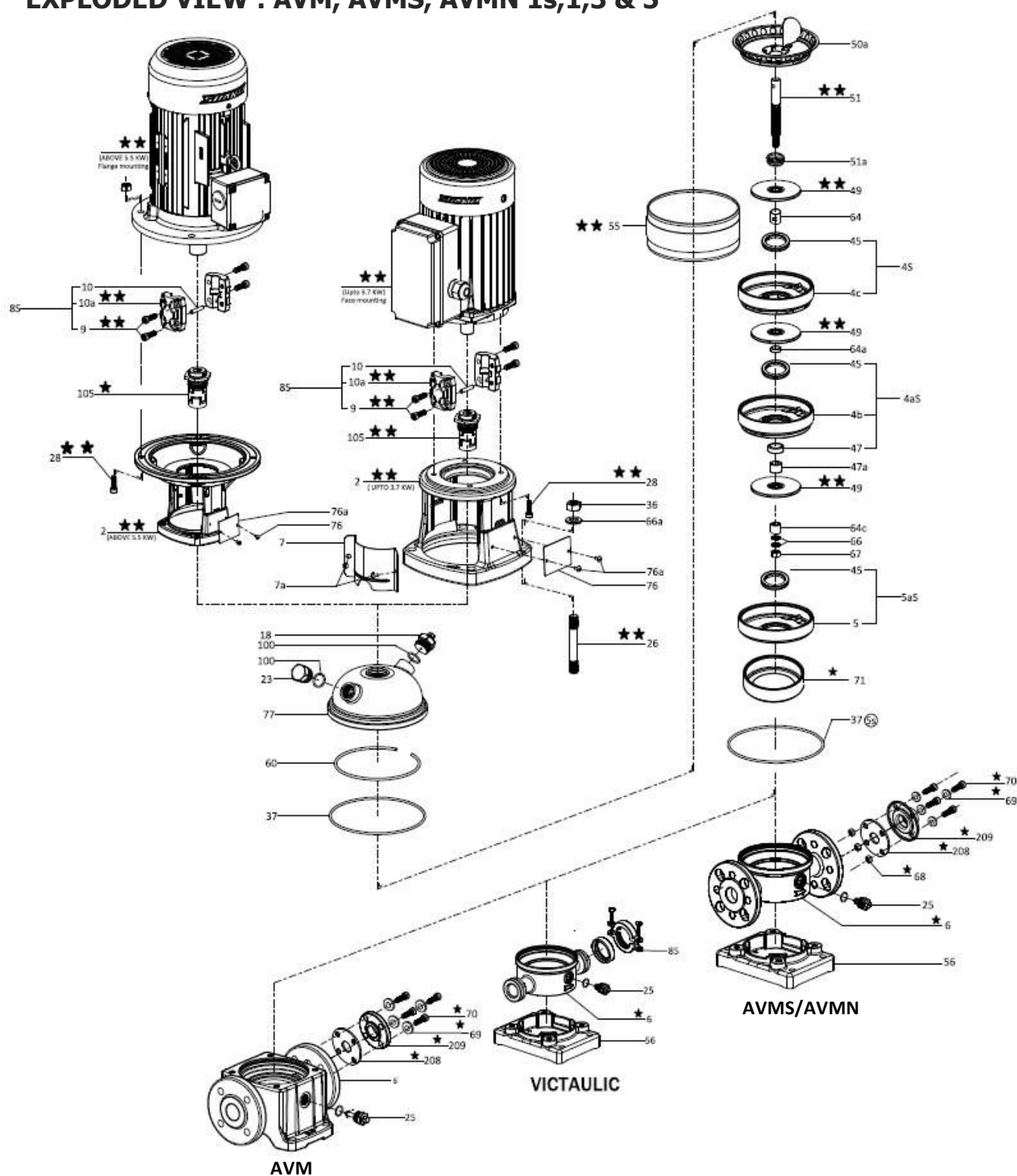
The three phase motors do not incorporate thermal protection and therefore require external thermal protection in accordance with local regulations.

Frame sizes with respect to phase and power given in table below.

HP	PH.	FRAME
1/3	1	56C
	3	56C
1/2	1	56C
	3	56C
3/4	1	56C
	3	56C
1	1	56C
	3	56C
1 1/2	1	56C
	3	56C
2	1	56C
	3	56C
3	1	182TC
	3	182TC
5	1	213TCZ
	3	182TC
7 1/2	1	213TC
	3	213TC
10	1	213TC
	3	215TC
15	3	254TC
20	3	254TC
25	3	284TSC
30	3	286TSC
40	3	324TSC
50	3	326TSC
60	3	364TSC
75	3	365TSC
100	3	405TSC

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

EXPLODED VIEW : AVM, AVMS, AVMN 1s,1,3 & 5



** Marked component changes as per stages and models.
* Changes as per the application of customer.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

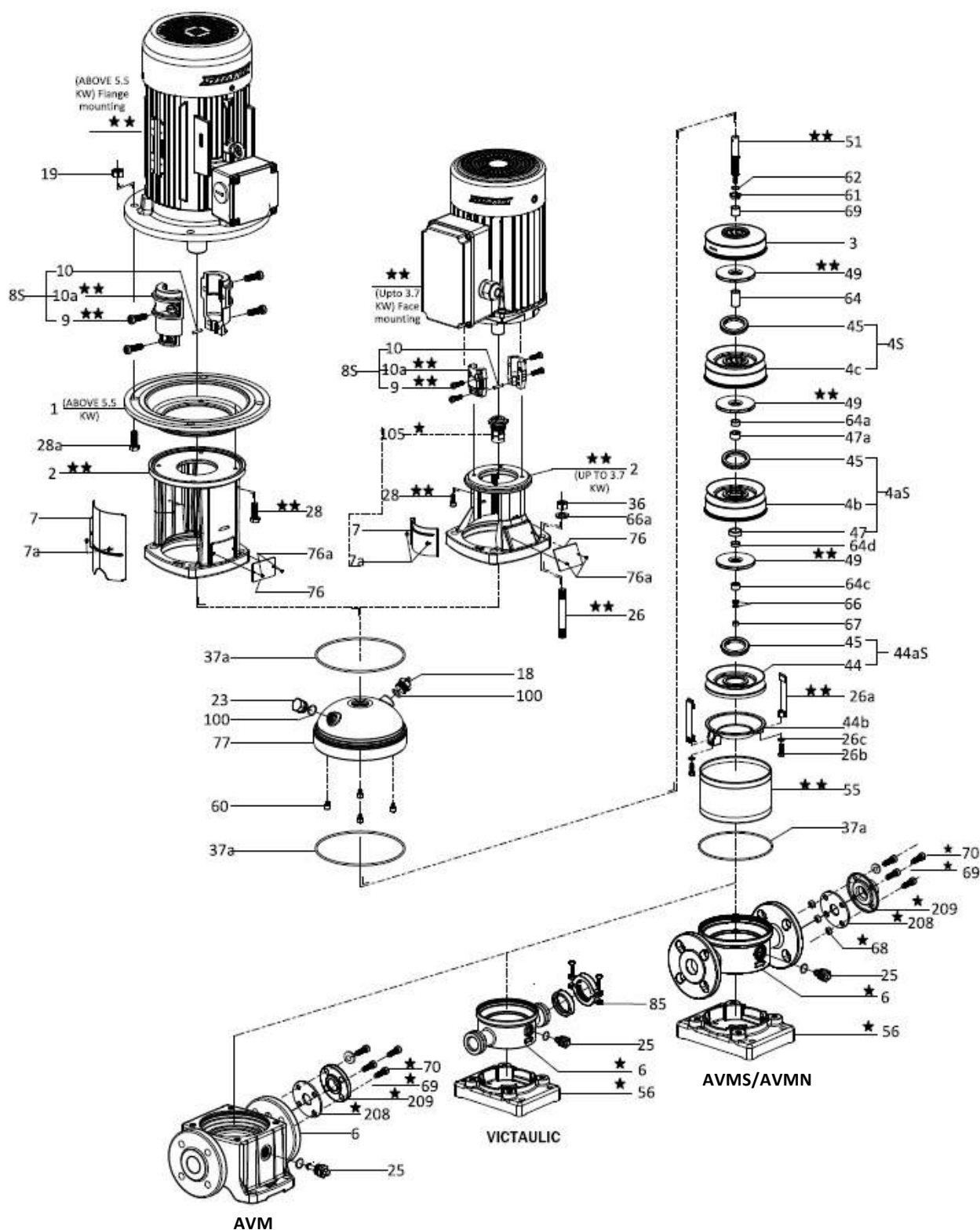
PART LIST :AVM, AVMS, AVMN 1s,1,3 & 5

POSNO	DESCRIPTION
4aS	MIDDLE CHAMBER ASSEMBLY
	4b DIFFUSER CUP (MIDDLE)
	47 RADIAL BUSH
	45 NECKRING ASSEMBLY
	TOP CHAMBER ASSEMBLY
	4C DIFFUSER CUP {INTER}
	45 NECKRING ASSEMBLY
5aS	BOTTOM CHAMBER ASSEMBLY
	5 DIFFUSER CUP (BOTTOM)
	45 NECKRING ASSEMBLY
8S	COUPLING ASSEMBLY
	9 COUPLING BOLT
	10a COUPLING
	10 SHAFT PIN
2	PUMP HEAD
6	PUMP BASE
56	PUMP BASE PLATE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
18	AIR VENT ASSEMBLY
100	O-RING
23	FILLING SCREW
100	O-RING
25	DRAIN PLUG ASSEMBLY
38	O-RING
26	STAY BOLT
36	STAY BOLT NUT M 12
66a	STAY BOLT WASHER
28	BOLT
37	O-RING
47a	RADIAL SLEEVE
49	IMPELLER
50a	DIFFUSER ASSEMBLY (PUMP HEAD)
51a	SHAFT CLAMP BUSH
51	PUMP SHAFT
64c	SPLINED CLAMP
66	LOCK WASHER
67	LOCK MUT M8
55	OUTER SLEEVE
60	CORROGATED SPRING
64a	SPACING PIPE (4.5 mm)
64	SPACING PIPE (17.5 mm)

POSNO	DESCRIPTION
76a	NAME PLATE SCREW
76	NAME PLATE
77	PUMP HEAD COVER
105	SHAFT SEAL
68	HEX-NUT M12
69	H.H. BOLT (M12XSS)
70	NUT M12
206	DIN FLANGE MC 32 NB
207	COLLATE
208	DELIVERY FLANGE GASKET
209	DIN 32 FLANGE
203	FLANGE CIRCLIP
85	VICTAULIC COUPLING
71	DIFFUSER CUP (EMPTY)

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

EXPLODED VIEW :AVM, AVMS, AVMN 10, 15 & 20



** Marked component changes as per stages and models.

* Changes as per the application of customer.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

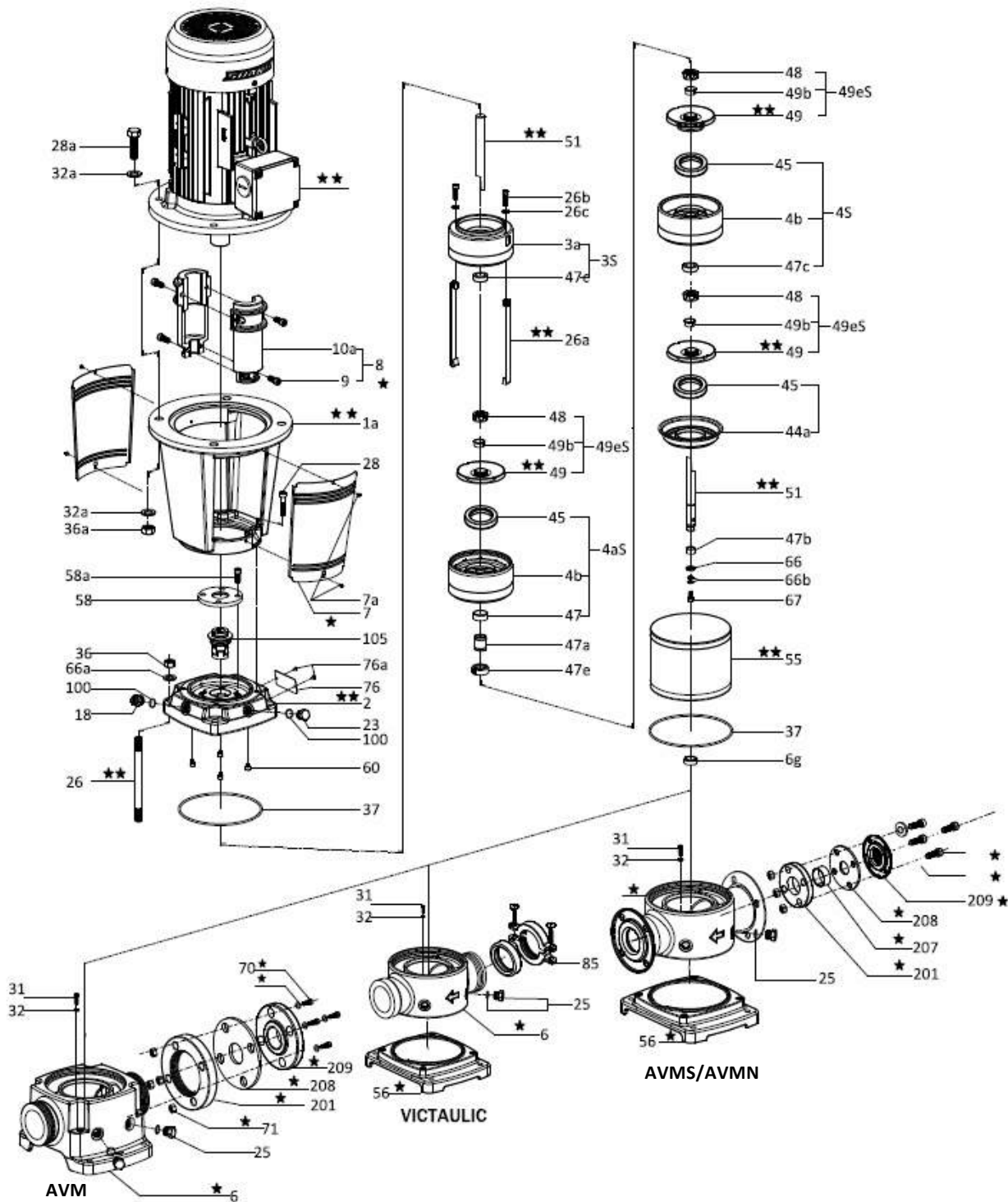
PART LIST : AVM, AVMS, AVMN 10, 15 & 20

POSNO	DESCRIPTION
1	PUMP HEAD BASE (5.5 KW ABOVE)
2	PUMP HEAD
3	TOP CHAMBER
4aS	MIDDLE CHAMBER ASSEMBLY
	4b CHAMBER WITH VANE
	45 NECK RING ASSEMBLY
	47 RADIAL BUSH
4S	INTER CHAMBER ASSEMBLY
	4c CHAMBER WITH VANE
	45 NECK RING ASSEMBLY
44aS	BOTTOM CHAMBER ASSEMBLY
	44 BOTTOM CHAMBER
	45 NECK RING ASSEMBLY
8S	COUPLING ASSEMBLY
	9 COUPLING BOLT
	10a COUPLING
	10 SHAFT PIN
6	PUMP BASE
56	PUMP BASE PLATE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
18	AIR VENT ASSEMBLY
100	O-RING
19	NUT
23	FILLING SCREW
100	O-RING
25	DRAIN PLUG ASSEMBLY
38	O-RING
26c	CLAMPING STRIP WASHER
26b	CLAMPING STRIP BOLT
26a	CLAMPING STRIP
26	STAY BOLT
36	STAY BOLT NUT M 16
66a	STAY BOLT WASHER M16
28a	BOLT
28	BOLT

POSNO	DESCRIPTION
37	O-RING
44b	INLET CHAMBER STACK
47a	RADIAL SLEEVE
49	IMPELLER
51	PUMP SHAFT
61	SEAL DRIVER
62	STOP RING
64c	SPLINED CLAMP
66	LOCK WASHER
67	LOCK NUT M8
55	OUTER SLEEVE
60	RUBBER PAD
64d	SPACING PIPE (7.4 mm)
64a	SPACING PIPE (10.0 mm)
64	SPACING PIPE (31.4 mm)
69	SPACING PIPE (20.5 mm)
76a	NAME PLATE SCREW
76	NAME PLATE
77	PUMP HEAD COVER
105	SHAFT SEAL
68	HEX-NUT M12
69	H.H. BOLT (M 12X55)
70	NUT 12
206	DIN FLANGE MC 32NB
207	DELIVERY FLANGE
208	DELIVERY FLANGE GASKET
209	DIN 32 FLANGE
85	VICTAULIC COUPLING

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

EXPLODED VIEW :AVM, AVMS & AVMN 32, 45, 64 & 90



※ Marked component changes as per stages and models.
* Changes as per the application of customer.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

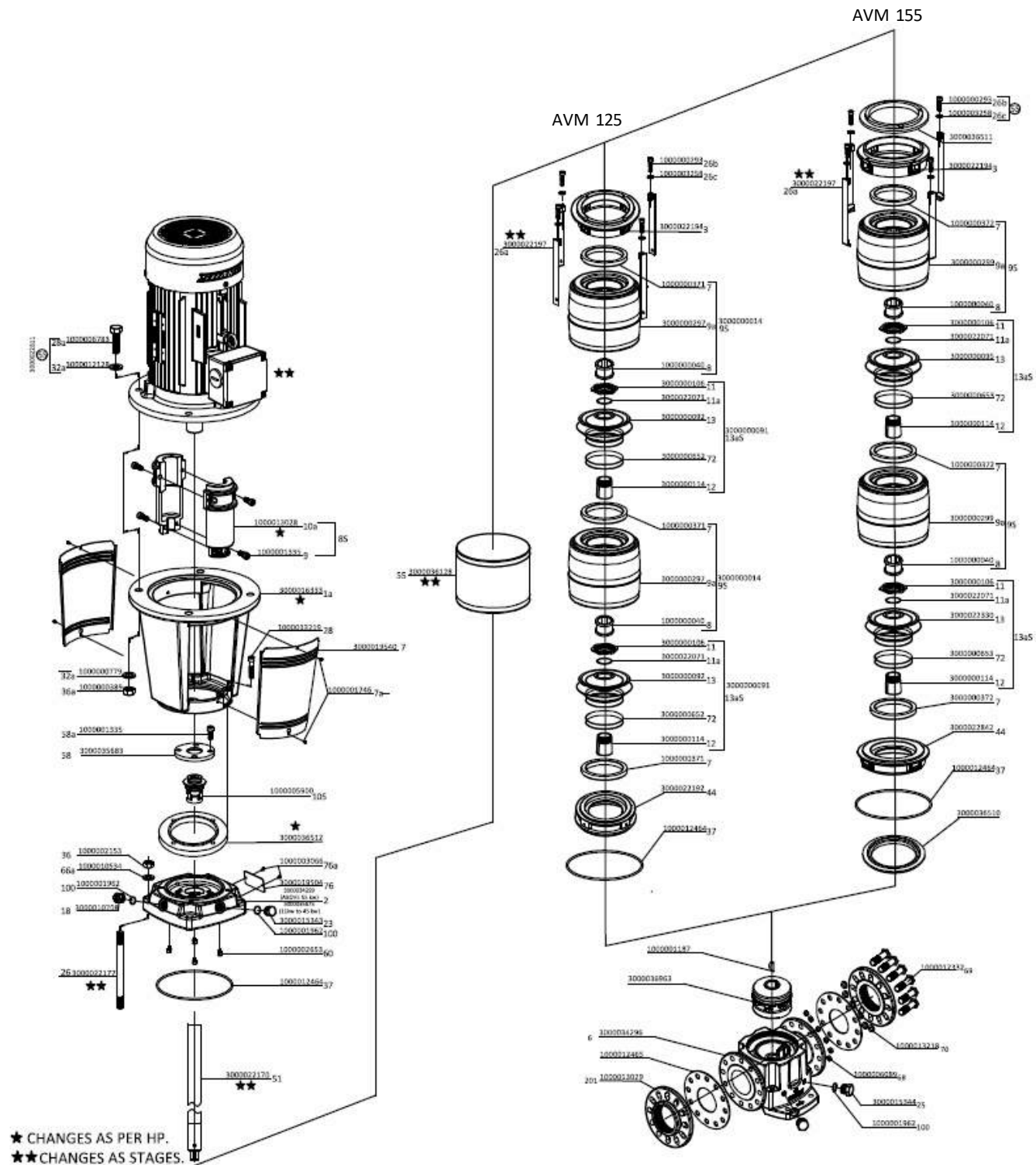
PART LIST :AVM, AVMS & AVMN 32, 45, 64 & 90

POSNO	DESCRIPTION
1a	MOTOR STOOL
2	PUMP HEAD
3S	TOP CHAMBER ASSEMBLY
	3a TOP CHAMBER
	47c CHAMBER BUSH
4aS	MIDDLE CHAMBER ASSEMBLY
	4b CHAMBER WITH VANE
	45 NECKRING Assembly
4S	INTER CHAMBER ASSEMBLY
	4b CHAMBER WITH VANE
	47c CHAMBER BUSH
	45 NECKRING Assembly
44S	INLET PART ASSEMBLY
	44a INLET PART
	45 NECKRING Assembly
49eS	IMPELLER COMPLETE
	49 IMPELLER
	49c IMPELLER WEARING RING
	48 SPLIT CONE NUT
	49b SPLIT CONE SLEEVE
8S	COUPLING ASSEMBLY
	9 COUPLING BOLT
	10a COUPLING
6	PUMP BASE
6g	BEARING RING
32	PUMP BASE WASHER
32a	WASHER
56	PUMP BASE PLATE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
9	COUPLING BOLT
10a	COUPLING
18	AIR VENT ASSEMBLY
100	O-RING
23	FILLING SCREW
25	DRAIN PLUG ASSEMBLY
38	O-RING

POSNO	DESCRIPTION
26c	CLAMPING STRIP WASHER
26b	CLAMPING STRIP BOLT
26a	CLAMPING STRIP
26	STAY BOLT
36	STAY BOLT NUT M 16
66a	STAY BOLT WASHER
28a	BOLT
28	BOLT
31	ALLEN BOLT M6
36a	NUT M16
37	O-RING
47e	DRIVER CUP
47a	DRIVER
51	PUMP SHAFT
47b	PUMP BASE BUSH
66	TC RING
66b	LOCK WASHER
67	LOCK NUT M8
55	OUTER SLEEVE
58a	ALLEN BOLT M10
58	SEAL CARRIER
60	RUBBER PAD
76a	NAME PLATE SCREW
77	PUMP HEAD COVER
105	SHAFT SEAL
68	HEX-NUT M12
69	H.H. BOLT (M 12X55)
70	NUT 12
206	DIN FLANGE MC 32NB
207	DELIVERY FLANGE
208	DELIVERY FLANGE GASKET
209	DIN 32 FLANGE
85	VICTAULIC COUPLING

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

EXPLODED VIEW AVM 125 & 155



**** Marked component changes as per stages and models.**
*** Changes as per the application of customer.**

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PART LIST : AVM 125 & 155

POS NO.	DESCRIPTION
1a	MOTOR STOOL
2	PUMP HEAD
3	DISCHARGE PART
6	PUMP BASE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
8S	COUPLING ASSEMBLY
	9 COUPLING BOLT
	10a COUPLING
9S	BOWL ASSEMBLY
	9a BOWL ASSEMBLY
	4 NECKRING
	6 BOWL BUSH
13aS	IMPELLER COMPLETE
	13 IMPELLER
	72 WEARING RING
	12 COLLETE
	11a COLLETE WASHER
	11 COLLETE NUT
18	AIR VENT ASSEMBLY
100	O-RING
23	FILLING SCREW
100	O-RING
25	DRAIN PLUG ASSEMBLY
100	O-RING
26c	CLAMPING STRIP WASHER
26b	CLAMPING STRIP BOLT
26a	CLAMPING STRIP
26	STAY BOLT
36	STAY BOLT NUT M16
66a	STAY BOLT WASHER
36a	NUT M16
28a	BOLT
28	BOLT
32a	WASHER
37	O-RING
44	INLET PART
51	PUMP SHAFT
55	OUTER SLEEVE
56c	ALLEN BOLT M12x70

POS NO.	DESCRIPTION
56	BASE PLATE
58a	ALLEN BOLT M10
58	SEAL CARRIER
60	RUBBER PAD
76a	NAME PLATE SCREW
76	NAME PLATE
105	SHAFT SEAL
69	H.H. BOLT(M12X55)
70	NUT M12
206	DIN FLANGE MC
207	COLLATE
208	DELIVERY FLANGE GASKET
201	DIN FLANGE MC
209	DIN FLANGE

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PUMPED FLUIDS

PRESSURE BOOSTING PUMP

Thin, non-explosive fluids, not containing solid particles or fibers. The liquid must not chemically attack the pump materials. When pumping fluids with a density and/or viscosity higher than that of water, use oversized motors, if required. Whether a pump is suitable for a particular liquid depends on a number of factors of which the most important are the chloride content, pH value, temperature and content of chemicals, oils, etc.

Please note that aggressive fluids, such as sea water and some acids, may attack or dissolve the protective oxide film of the stainless steel and thus cause corrosion.

AVM, AVMS

Use AVM AVMS pumps are suitable for non-corrosive fluids.

Use AVM AVMS pumps for liquid transfer, circulation and pressure boosting of cold or hot clean water.

AVMN pumps are suitable for industrial fluids. Use AVMN pumps in systems where all parts in contact with the liquid must be made of high-grade stainless steel.

LIST OF PUMPED LIQUIDS

A number of typical liquids are listed on following pages.

Other pump versions may be applicable, but those stated in the list are considered to be the best choices.

The table is a general guide only and cannot replace actual testing of the pumped liquids and pump materials under specific working conditions. The list should, however, be applied with some caution as factors such as the following may affect the chemical resistance of a specific pump version

- Concentration of the pumped liquid
- Liquid temperature
- Pressure.

Safety precautions must be made when pumping dangerous liquids.

Notes

D:- Often with additives.

E:- Density and/or viscosity differ from that of water, allow for this when calculating motor output and pump performance.

F:- Pump selection depend on many factors contact Albany.

H:- Risk of crystallization/precipitation in shaft seal.

1:- The pumped liquid highly inflammable.

2:- The pumped liquid is combustible.

3:- Insoluble in water.

4:- Low self-ignition point.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PUMPED LIQUID

Pumped liquid	Note	Liquid concentration, liquid temperature	AVM		AVMN	
			Is, 1, 3, 5, 10,15,20	32, 45, 64, 90, 120, 150	Is, 1, 3, 5, 10,15,20	32, 45, 64, 90, 120,150
Acetic acid CH ₃ COOH		5%, 68 ° F			HQQE	HQQE/HBQE
Acetone CH ₃ COCH ₃	I, F	100%, 68 ° F			HBQE	HQQE/HBQE
Alkaline degreasing agent	D, F		HQQE	HQQE/HBQE		
Ammonium bicarbonate NH ₄ HCO ₃	E	20%, 86 ° F			HQQE	HQQE/HBQE
Ammonium hydroxide NH ₄ OH		20%, 104 ° F	HQQE	HQQE/HBQE		
Aviation Fuel	1,3,4,F	100%, 68 ° F	HQBv	HQQV		
Benzoic acid C ₆ H ₅ COOH	H	0.5%, 68 ° F			HQQV	HQQV
Boiler water		<248 ° F	HQQE	HQQE		
	F	248 ° F - 356 ° F	-	-		
Calcareous water		<194 ° F	HQQE	HQQE		
Calcium acetate (as coolant with inhibitor) Ca(CH ₃ COO) ₂	D, E	30%, 122 ° F	HQQE	HQQE		
Calcium hydroxide Ca(OH) ₂	E	Saturated solution, 122 ° F	HQQE	HQQE		
Chloride-containing water	F	<86 ° F, max 500 ppm			HQQE	HQQE
Chromic acid H ₂ CrO ₄	H	1%, 68 ° F			HQQV	HQQV
Citric acid HOCH(CH ₂ CO ₂ H) ₂ COOH	H	5%, 104 ° F			HQQE	HQQE/HBQE
Completely desalinated water (demineralized water)		<248 ° F			HQQE	HQQE/HBQE
Condensate		<194 ° F	HQQE	HQQE/HBQE		
Copper sulfate CuSO ₄	E	10%, 122 ° F			HQQE	HQQE
Corn oil	D, E, 3	100%, 176 ° F	HQQV	HQQV		
Diesel oil	2, 3, 4, F	100%, 68 ° F	HQBv	HQQV		
Domestic hot water (portable water)		<248 ° F	HQQE	HQQE/HBQE		
Ethanol (ethyl alcohol) C ₂ H ₅ OH	1, F	100%, 68 ° F	HQQE	HQQE/HBQE		
Ethylene glycol HOCH ₂ CH ₂ OH	D, E	50%, 122 ° F	HQQE	HQQE		
Formic acid HCOOH		5%, 68 ° F			HQQE	HQQE/HBQE
Glycerine (glycerol) OHCH ₂ CH(OH)CH ₂ OH	D, E	50%, 122 ° F	HQQE	HQQE/HBQE		
Hydraulic oil (mineral)	E, 2, 3	100%, 212 ° F	HQQV	HQQV/HBQE		
Hydraulic oil (synthetic)	E, 2, 3	100%, 212 ° F	HQQV	HQQV/HBQE		
Isopropyl alcohol CH ₃ CHOHC(CH ₃) ₂	I, F	100%, 68 ° F	HQBv	HQQV		
Lactic acid CH ₃ CH(OH)COOH	E, H	10%, 68 ° F			HQQE	HQQE/HBQE
Linoleic acid C ₁₇ H ₃₁ COOH	E, 3	100%, 68 ° F	HQQV	HQQV		
Methanol (methyl alcohol) CH ₃ OH	1, F	100%, 68 ° F	HQQE	HQQE/HBQE		
Motor oil	E, 2, 3	100%, 176 ° F	HQQV	HQQV		
Naphthalene C ₁₀ H ₈	E, H	100%, 176 ° F	HQQV	HQQV		
Nitric acid HNO ₃	F	1%, 68 ° F			HQQE	HQQE/HBQE
Oil containing water		<212 ° F	HQQV	HQQV		
Olive oil	D, E, 3	100%, 176 ° F	HQQV	HQQV		
Oxalic acid (COOH) ₂	H	1%, 68 ° F			HQQE	HQQE/HBQE
Ozone-containing water		1 PPM, <105 ° F			HQQE	HQQE/HBQE
Peanut oil	D, E, 3	100%, 194 ° F	HQQV	HQQV		
Petrol/gasoline	1, 3, 4, F	100%, 68 ° F	HQBv	HQBv		

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SHAFT SEAL

The variant code of mechanical shaft seals is indicated the last position of the type designation, the stamping code consists of four letters.

Example	A	U	U	E
ALBANY type designation (1)				
Material of rotating face (2)				
Material of stationary seat (3)				
Material of secondary seal (4)				

Position 1 codes

Position 1 of the mechanical shaft seal variant code shows the ALBANY type designation as under

The following codes can be shown in position 1:

Code	Description
A	O-ring seal with fixed seal driver
B	Bellows seal, rubber
C	O-ring seal with spring as seal driver
D	O-ring seal, balanced
E	O-ring seal, type A, cartridge
F	Bellows seal, type B, cartridge
G	Bellows seal, type B, with reduced seal
H	faces O-ring seal type D cartridge
K	Bellows seal, metal, type M, cartridge
M	Bellows seal, metal
O	Double seal, back-to-back
p	Double seal, tandem
Q	Seal with flush, quench seal
R	O-ring seal, type A, with reduced seal
S	faces Stuffing box
T	Floating gap seal
X	Miscellaneous

Positions 2 and 3 codes

Positions 2 and 3 of the mechanical shaft seal variant code show materials of rotating face and stationary seat.

The following codes can be shown in positions 2 and 3:

Code	Material	
A	Synthetic carbon	Carbon, metal-impregnated
B		Carbon, resin-impregnated
H (B/U)		Carbon with embedded tungsten carbide (hybrid)
C		Other carbons
D	Metals	Steel
N		Bronze
S		Cast chromium steel
U	Carbides	Tungsten carbide, chromium-nickelmolybdenum-bonded
Q		Q1S: Dense, sintered, fine-grained silicon carbide (SiC)
		Q1P: Porous, sintered, fine-grained silicon carbide (SiC)
		Q1G: Graphite-containing, sintered silicon carbide (SiC)
V	Metal oxides	Ceramic (aluminum oxide)

Position 4 codes

Position 4 of the mechanical shaft seal variant code shows the secondary seal material.

The following codes can be shown in position 4:

Code	Material
E	EPDM Temp.
F	resistance FXM
V	FKM
K	FFKM
M	PTFE-sheathed O-ring
p	NBR (nitrile rubber)
S	Silicon Rubber
T	PTFE
X	Other elastomers

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

CUSTOMIZE PUMP VARIANTS :

ALBANY AVM AVMS AVMN product range offers a number of pumps for different applications, customers require specific pump solutions to satisfy their needs. As we are in continuous development such type of pumps are available only on request below please find the range of options available for customising the AVM pumps to meet the customers' demands.

Contact ALBANY for further information or for requests other than the ones mentioned below.

Motors

Variant	Description
ExXplosion proof motor	For operation in hazardous atmospheres, explosion-proof or dust-ignition-proof motors may be required.
Motor with anti-condensation heating unit	For operation in humid environments motors with built-in anti-condensation heating unit may be required.
Motor with thermal protection	We offer motors with built-in bimetallic thermal switches or temperature-controlled PTC sensors (thermistors) incorporated in the motor windings.
Oversize motor	Ambient temperatures above 104 °F for installation at altitudes of more than 3280 ft above sea level require the use of an oversize motor (i.e. derating).
4-pole motor	We offer 4-pole standard motors.

Shaft seals

Variant	Description
Shaft seal with FFKM O-ring	Shaft seals with FFKM or FXM O-ring are recommended for applications where the pumped liquid may damage the standard O-ring material.
Seal with flush, quench seal	Recommended for applications involving crystallising, hardening or sticky liquids.
Air-cooled shaft seal system	Recommended for applications involving extremely high temperatures. No conventional mechanical shaft seal can withstand liquid temperatures of up to 356 °F for any length of time. For such applications, ALBANY unique air-cooled shaft seal system is recommended. In order to ensure a low liquid temperature around the standard shaft seal, the pump is fitted with a special air-cooled shaft seal chamber. No separate cooling is required.
Double seal with pressure chamber	Recommended for applications involving poisonous or explosive liquids. Protects the surrounding environment and the people working in the vicinity of the pump. Consists of two seals mounted in a "back-to-back" arrangement inside a separate pressure seal chamber. As the pressure in the chamber is higher than the pump pressure, leakage is prevented. A dosing pump or a special pressure intensifier generates the seal chamber pressure.
AVM MAGdrive	Magnetically driven pumps for industrial applications. Key applications are industrial processes involving the handling of aggressive, environmental, dangerous or volatile liquids, e.g. organic compounds, solvents, etc.

Pumps

Variant	Description
Horizontally mounted pump	For safety or height reasons, certain applications, for instance on ships, require the pump to be mounted in the horizontal position. For easy installation the pump is fitted with brackets that support motor and pump.
Low-temperature pump	Exposed to temperatures down to -40 °F, coolant pumps may require neck rings with a different diameter in order to prevent impeller drag.
High-temperature pump	Pumping of high-temperature liquids The pumping of hot liquids demands much of pump parts, such as shaft seals and rubber parts. □ water-based liquids up to 356 °F at 362 psi. □ thermal oils up to 464 °F at 232 psi. To ensure a reliable and stable production, we offer AVM/AVMS/AVMN pumps with an air-cooled top and special rubber parts. A AVM pump with an air-cooled top is a pump which can handle high temperatures and deliver a high pressure. The pump is fitted with a special air-cooled shaft seal chamber generating the same insulation effects as that of a vacuum flask.
High-pressure pump up to 696 psi	For high-pressure applications, we offer a unique double pump system capable of generating a pressure of up to 696 bar.
Low-NPSH pump (improved suction)	Recommended for boiler-feed applications where cavitation may occur due to poor inlet conditions.
Pump with bearing flange	The bearing flange is suitable for applications where the inlet pressure is higher than the maximum pressure recommended. The bearing flange increases the life of motor bearings. Recommended for standard motors.
Belt-driven pump	Belt-driven pumps designed to operate in places with limited space or where no electrical power is available.
Pump for pharmaceutical and biotechnological applications	AVMN pumps designed for applications requiring the sterilisation and CIP capability of pipes, valves and pumps. (CIP = Cleaning-In-Place.)

Connections and other variants

Variant	Description
Pipe connections	In addition to the wide range of standard flange connections, a 232psi DIN standard clamping flange is available. Customized flanges are available according to specifications.
TriClamp connection	TriClamp connections are of a hygienic design with a sanitary coupling for use in the pharmaceutical and food industry.
Electro polished pump	To substantially reduce the risk of corrosion of the materials. For use in the pharmaceutical and food industry.