

AVM Series, Vertical Multi Stage Catalogue



PT. Archimedes Global Pump

Kawasan Pusat Niaga Terpadu

Jl. Daan Mogot Raya Km 19.6 Blok E 8A

Tangerang 15122, Indonesia.

Phone : (021) 54377378

Email : info@archimedes.co.id







Vertical Multistage Pump

AVM, AVMI, AVMN SERIES

Series name	Page
<u>AVM,AVMI,AVMN 1</u>	<u>07,08</u>
<u>AVM,AVMI,AVMN 3</u>	<u>09,10</u>
<u>AVM,AVMI,AVMN 5</u>	<u>11,12</u>
<u>AVM,AVMI,AVMN 10</u>	<u>13,14</u>
<u>AVM,AVMI,AVMN 15</u>	<u>15,16</u>
<u>AVM,AVMI,AVMN 20</u>	<u>17,18</u>

Series name	Page
<u>AVM,AVMI,AVMN 32</u>	<u>19,20</u>
<u>AVM,AVMI,AVMN 45</u>	<u>21,22</u>
<u>AVM,AVMI,AVMN 64</u>	<u>23,24</u>
<u>AVM,AVMI,AVMN 90</u>	<u>25,26</u>
<u>AVM,AVMI,AVMN 120</u>	<u>27,28</u>
<u>AVM,AVMI,AVMN 150</u>	<u>29,30</u>

AVM, AVMI, AVMN Series

Commercial & Industrial

Vertical Multistage Centrifugal In-Line Pumps

Description

The AVM, AVMI and AVMN pumps are non-self-priming vertical multistage pump of in-line design, flange or with Victaulic coupling with equally sized suction and discharge ports. Stage construction with stainless steel impellers, chambers and pressure casing. Pump stub shaft and motor shaft of the IEC-standards motor are directly close coupled. All pumps are equipped with a cartridge type mechanical seal for easy maintenance. AVM, AVMI and AVMN pumps have different pump sizes and various numbers of stages to provide the flow and the pressure required.

Features

- Wide performance range
- High efficiency for low electricity bill
- Optional mechanical seal combinations for various applications
- Robust construction for better reliability

Model Code

	AVM, AVMI, AVMN	10	-	5
Series name				
Nominal flow rate[m³/h]				
Number of stages				



Power	Max.Flow	Max.Head
0.37 - 75 kW	Up to 180 m ³ /h	Up to 320 M

Application

- Water works
- Waters treatment
- Fire fighting systems
- Car washing facilities
- Irrigation and agriculture
- Water supply and pressure boosting
- Reverse osmosis systems
- Process water systems
- High rise building
- Cooling systems
- Boilers

General Data

Motor Spec	
Motor Type	2 Pole, totally enclosed fan-cooled
Frequency	50HZ
Standard Voltages	P2: 0.37 - 7.5 kW
	3 x 220-240 / 380-415 V
	P2: From 11 kW
	3 x 380-415 V
Insulation Class	F class(155°C)
Enclosure Protection Class	IP 55
Nominal Speed	2850 rpm
Operation Conditions	
Liquids	Non-corrosive / explosive / flammable
Liquid Temperature	-15°C ~120°C
Ambient Temperature	Max. 50°C

Liquids to be pumped

The pump is designed for pumping freely flowing non-corrosive, non-explosive, and non-flammable liquids. The liquids to be pumped must also be free of solid matter, sands, fibers, and similar materials. Most common non-highly corrosive watery liquids, hot and cold liquids can be pumped with this pump. The suitability of factors, such as the pH level, contents of chemicals such as chlorides, oils, the temperature of the liquids, etc. Please contact PT. Archimedes Global Pump if there are any questions as to whether certain liquids are suitable for pumping with the pump.

Model	AVM											
	1	3	5	10	15	20	32	45	64	90	120	150
Flange	DN25 / DN32	DN25 / DN32	DN25 / DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125
Model	AVMI, AVMN											
	1	3	5	10	5	20	32	45	64	90	120	150
Flange	DN25 / DN32	DN25 / DN32	DN25 / DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125
victaulic-connections	R 1 1/4 DN32	R 1 1/4 DN32	R 1 1/4 DN32	R 2 DN 50	R 2 DN 50	R 2 DN 50	N/A	N/A	N/A	N/A	N/A	N/A

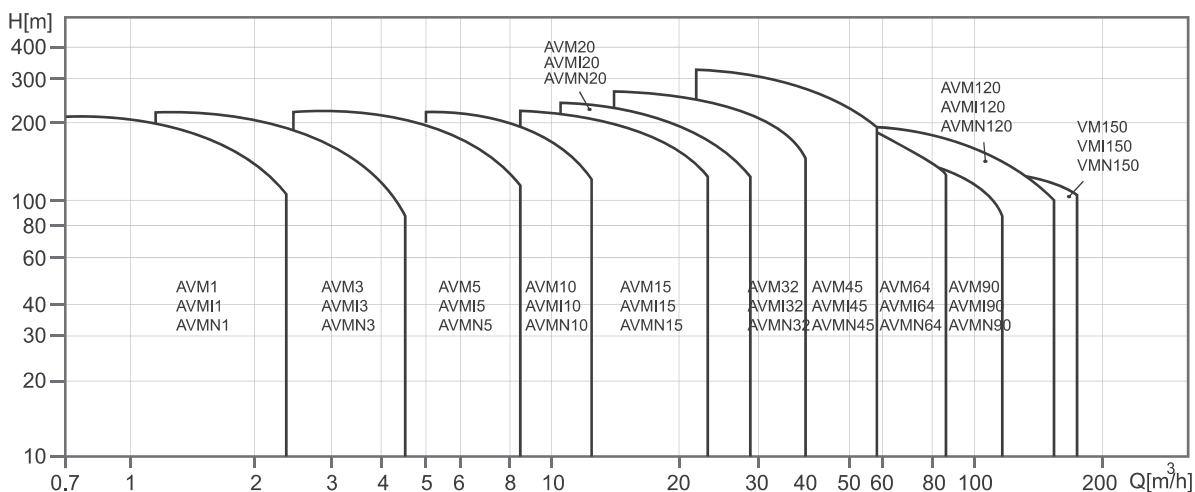
Mechanical Seals

Standard Cartridge type mechanical seal made of Silicon Carbide/Silicon Carbide/EPDM or Viton. Based on the type of application, alternative materials are available for the seal and the elastomers. The cartridge type mechanical seal can be replaced in minutes without special tools and without dismantling the pump.

List of Materials			
U: Tungsten carbide		E: EPDM	
Q: Silicon carbide		V: Viton	
B: Carbon			
Seal Type	AVMN		
	1/3/5/10/15/20 /32/45/64/90	120/150	
Mechanical seals			0.5-60HP
S : O-ring seal Cartridge type	●	●	
B : Rubber bellows seal Cartridge type			●
QQ	●	●	●
UU	Optional	Optional	
QB	Optional	Optional	
UB	Optional	Optional	
O-rings			
E	●	●	
V	Optional	Optional	●

• Standard

Performance Range



Pumped Liquid

Pumped Fluid	"Fluid Concentration, Temperature"	AVM & AVMI		AVMN	
		EPDM	VITON	EPDM	VITON
Fruit Juice	50°C				•
Glycerine	50%, 50°C	•			
Heating Oil (Light)		•			•
Hydraulic Oil	100%, 100°C		•		
Isopropanol		•			
Lactic acid	10%, 20°C				•
Linoleic acid	100%, 20°C	•			
Linseed oil	60°C		•		
Liqueur	60°C				•
Maize oil	80°C		•		
Maleic acid	50%, 50°C				•
Methanol	100%, 20°C	•			
Motor oil	100%, 80°C	•			
Oil-water-mixtrue	100°C		•		
Oxalic acid	1%, 20°C			•	
Peanut oil	100%, 80°C		•		
Phosphoric acid	20%, 20°C			•	
Polyglycols	90°C		•		•
Polyethylene glycols	40%, 70°C	•			
Potassium carbonate	10%, 60°C	•			
Potassium hydrogen carbonate	10%, 60°C	•			
Potassium permanganate	5%, 20°C			•	
Potassium sulphate	Unsaturated solution, 80°C			•	
Rapeseed oil	100%, 80°C		•		
Silicone oil	100%		•		
Sodium carbonate	10%, 60°C			•	
Sodium hydroxide	25%, 50°C			•	
Sodium nitrate	Unsaturated solution, 80°C			•	
Sodium phosphate	5%, 100°C			•	
Sodium sulphate	10%, 60°C			•	
Sulphuric acid	5%, 25°C				•
Water		•	•	•	•
Swimming pool water	35°C	•		•	
Deionic	50°C			•	
Distilled water	50°C			•	
Decarbonate water				•	
Soft water				•	
Heating water				•	
Boiler water				•	
Pure water				•	
Rinsing water		•		•	

Motor Data

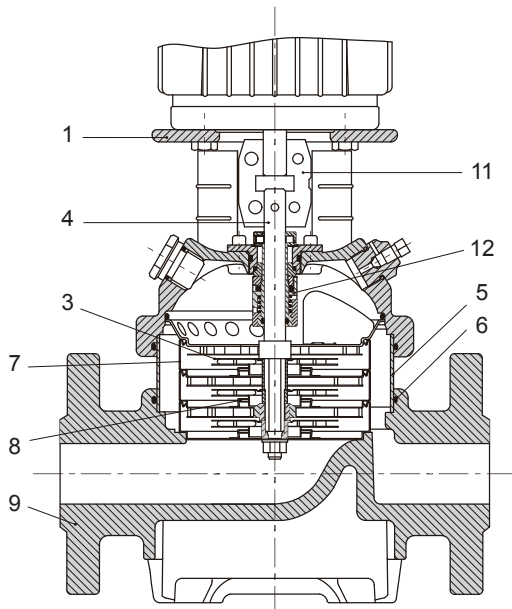
Motor Type				Nominal Current In [A]							
	HP	kW	Pole	Stool Flange	Frame	220	-	240 V /	380	-	415 V
	0.5	0.37	2	B14	71A	1.8		1.9	1.0		1.1
	0.75	0.55			71B	2.6		2.7	1.5		1.6
	1.0	0.75			80A	3.4		3.6	2.0		2.1
	1.5	1.1			80B	5.1		5.2	2.9		3.0
	2.0	1.5			90S	6.5		6.8	3.7		3.9
	3.0	2.2			90L	9.2		9.3	5.3		5.4
	4.0	3.0			100L	12.1		12.5	7.0		7.2
	5.5	4.0			112M	14.9		15.0	8.6		8.7
	7.5	5.5			132S	18.7		18	10.8		10.4
	10	7.5			132M	25.4		24.9	14.7		14.4
					380V - 415V						
	15	11	2	B5	160M				21.0		19.2
	20	15			160M				28.4		26.0
	25	18.5			160L				34.7		31.8
	30	22			180M				41.1		37.7
	40	30			200L				55.7		51.0
	50	37			200L				68.3		62.5
	60	45			225M				87.2		78.6
	75	55			250M				101.0		92.5
	100	75			280S				134.0		123.0

Maximum Operating and Inlet Pressure

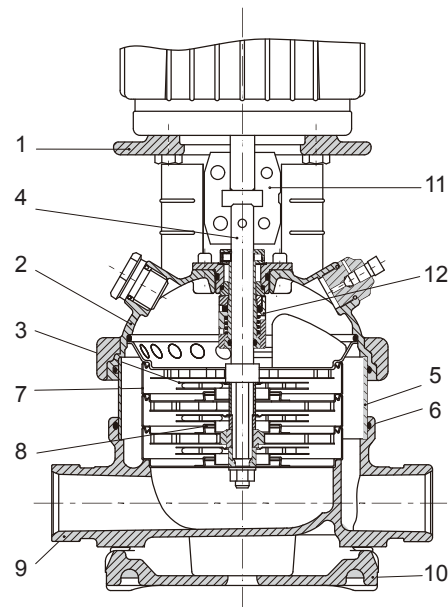
Stage	Maximum Operating Pressure	Stage	Maximum Inlet Pressure
	AVM, AVMI, AVMN 1		
2-36	25bar	2-36	10bar
	AVM, AVMI, AVMN 3		
2-36	25bar	2-29	10bar
		31-36	15bar
	AVM, AVMI, AVMN 5		
2-36	25bar	2-16	10bar
		18-36	15bar
	AVM, AVMI, AVMN 10		
1-16	16bar	1-6	8bar
17-22	25bar	7-22	10bar
	AVM, AVMI, AVMN 15		
1-10	16bar	1-3	8bar
12-17	25bar	4-17	10bar
	AVM, AVMI, AVMN 20		
1-10	16bar	1-3	8bar
12-17	25bar	4-17	10bar
	AVM, AVMI, AVMN 32		
(1-1)-7	16bar	(1-1)-4	4bar
(8-2)-14	30bar	(5-2)-10	10bar
		(11-2)-14	15bar
	AVM, AVMI, AVMN 45		
(1-1)-5	16bar	(1-1)-2	4bar
(6-2)-11	30bar	(3-2)-5	10bar
(12-2)-(13-2)	33bar	(6-2)-(13-2)	15bar
	AVM, AVMI, AVMN 64		
(1-1)-5	16bar	(1-1)-(2-2)	4bar
(6-2)-(8-1)	30bar	(2-1)-(4-2)	10bar
		(4-1)-(8-1)	15bar
	AVM, AVMI, AVMN 90		
(1-1)-4	16bar	(1-1)-1	4bar
(5-2)-6	30bar	(2-1)-(3-2)	10bar
		3-6	15bar
	AVM, AVMI, AVMN 120		
1-7	30bar	1-(2-1)	10bar
		2-(5-1)	15bar
		(6-1)-7	20bar
	AVM, AVMI, AVMN 150		
(1-1)-6	30bar	(1-1)-1	10bar
		(2-1)-(4-2)	15bar
		(5-2)-6	20bar

Material Construction

AVM 1, 3, 5, 10, 15, 20



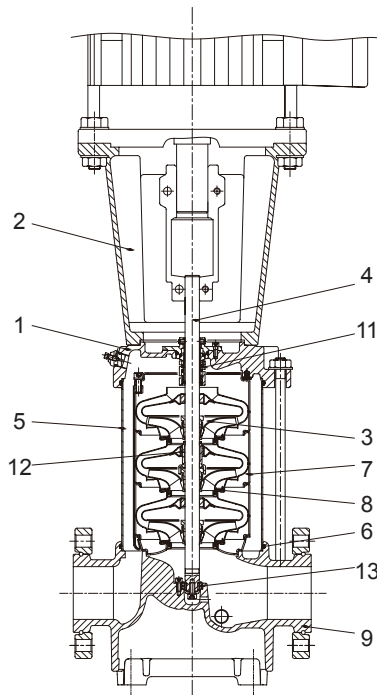
AVMI, AVMN 1, 3, 5, 10, 15, 20



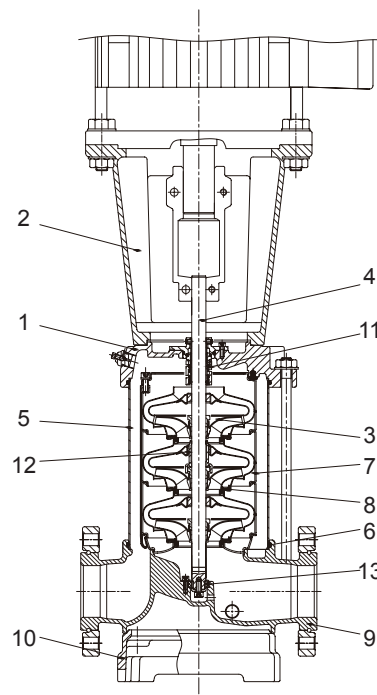
Pos.	Name	Material	AVM 1, 3, 5, 10, 15, 20		AVMI 1, 3, 5, 10, 15, 20		AVMN 1, 3, 5, 10, 15, 20	
			Standard		Standard		Standard	
			Europe	USA	Europe	USA	Europe	USA
1	Pump head	Cast Iron	EN-GJL-200	ASTM 25B	EN-GJS-450-10	ASTM -65-45-12	EN-GJS-450-10	ASTM -65-45-12
2	Pump head cover	Stainless steel	N/A		1.4301	AISI 304	1.4401	AISI 316
3	Impeller	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
4	Shaft	Stainless steel	1.4057	AISI 431	1.4057	AISI 431	1.4401	AISI 316
5	Outer sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
6	O-ring for outer sleeve	EPDM						
7	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
8	Neck ring	PTFE						
9	Base	Cast Iron	EN-GJL-200	ASTM 25B	N/A			
	Base	Stainless steel	N/A		1.4301	AISI 304	1.4401	AISI 316
10	Base plate	Cast Iron	N/A		EN-GJL-200	ASTM 25B	EN-GJL-200	ASTM 25B
11	Coupling	Fe-Cu-C	SINT C11	MPIF FC0525	SINT C11	MPIF FC0525	SINT C11	MPIF FC0525
12	Mechanical seal	Cartridge type						

Material Construction

AVM-32, 45, 64, 90



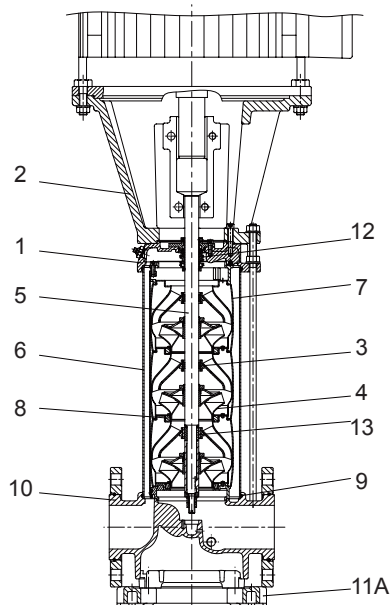
AVMI, AVMN-32, 45, 64, 90



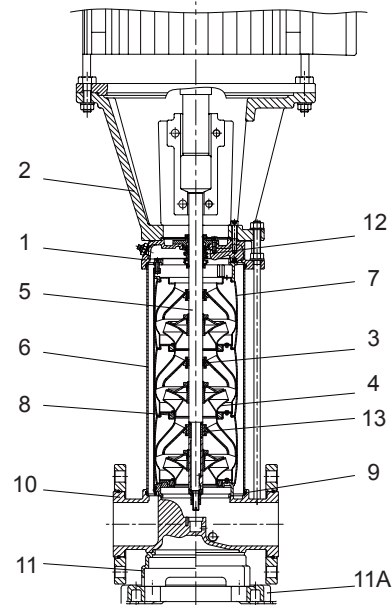
Pos.	Name	Material	AVM 32, 45, 64, 90		AVMI 32, 45, 64, 90		AVMN 32, 45, 64, 90	
			Standard		Standard		Standard	
			Europe	USA	Europe	USA	Europe	USA
1	Pump head	Cast Iron	EN-GJL-250	ASTM 35B				
		Stainless steel			1.4301	AISI 304	1.4401	AISI 316
2	Motor Bracket	Cast Iron	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B
3	Impeller	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
4	Shaft	Stainless steel	1.4057	AISI 431	1.4057	AISI 431	1.4401	AISI 316
5	Outer sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
6	O-ring for outer sleeve	EPDM						
7	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
8	Neck ring	Carbon Fiber + POB + PTFE						
9	Base	Cast Iron	EN-GJL-250	ASTM 35B	N/A			
	Base	Stainless steel		N/A	1.4301	AISI 304	1.4401	AISI 316
10	Base plate	Cast Iron		N/A	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B
11	Mechanical seal	Cartridge type						
12	Bearing ring			Bronze			POB + Graphite + PTFE	
13	Bottom bearing ring	Tungsten carbide / Tungsten carbide						

Material Construction

AVM-120, 150

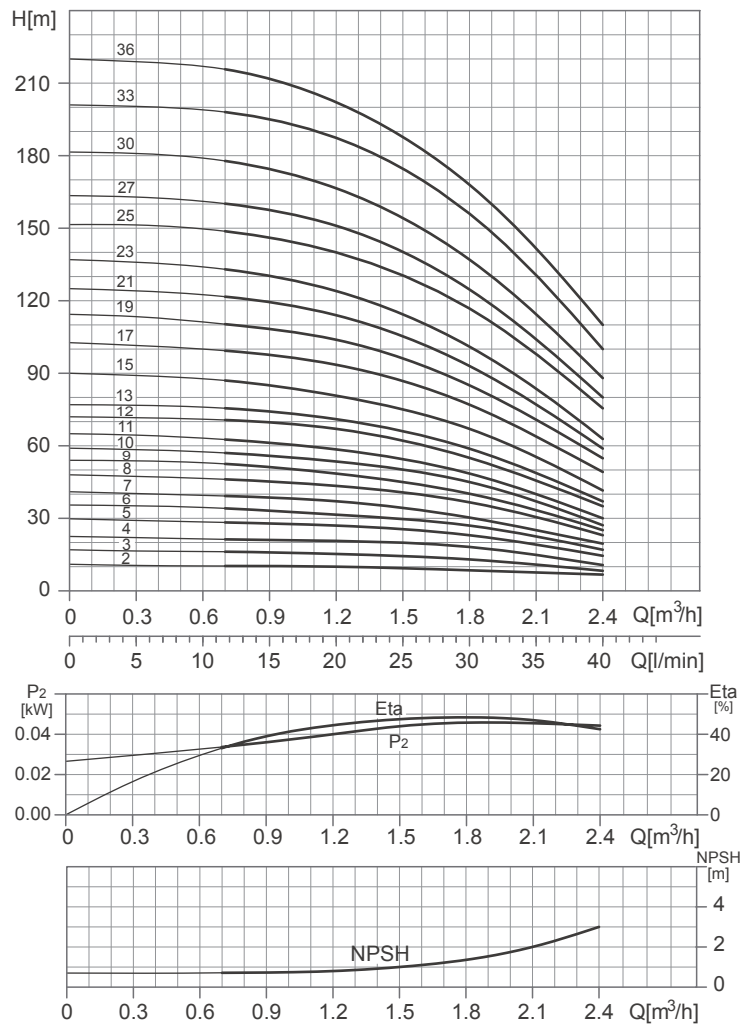


AVMI, AVMN-120, 150

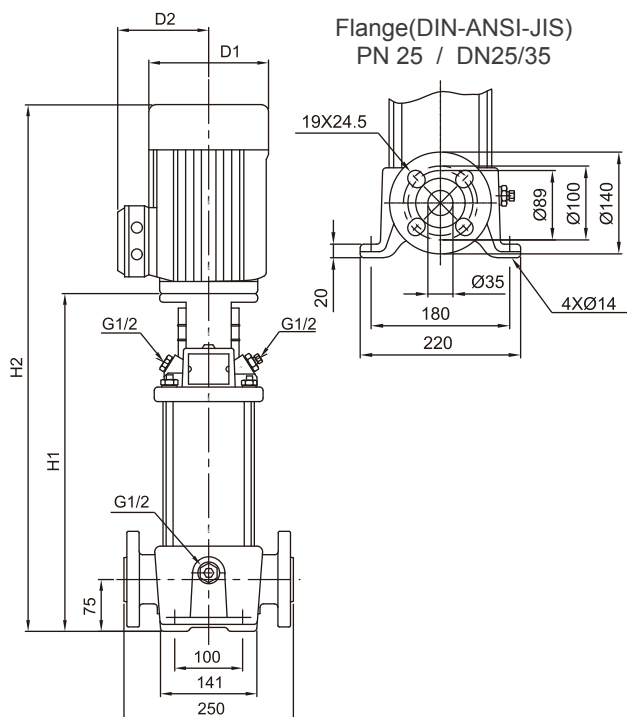


Pos.	Name	Material	AVM 120, 150		AVMI 120, 150		AVMN 120, 150	
			Standard		Standard		Standard	
			Europe	USA	Europe	USA	Europe	USA
1	Pump head	Cast Iron	EN-GJL-250	ASTM 35B	N/A			
		Stainless steel	N/A		1.4301	AISI 304	1.4401	AISI 316
2	Motor bracket (15HP ~ 60HP)	Cast Iron	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B
	Motor bracket (75HP ~ 100HP)	Cast Iron	EN-GJL-450-10	ASTM 65-45-12	EN-GJL-450-10	ASTM 65-45-12	EN-GJL-450-10	ASTM 65-45-12
3	Bearing ring	PTFE						
4	Impeller	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
5	Shaft	Stainless steel	1.4057	AISI 431	1.4057	AISI 431	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM						
8	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
9	Neck ring	PTFE						
10	Base	Cast Iron	EN-GJL-250	ASTM 35B	N/A			
		Stainless steel	N/A		1.4301	AISI 304	1.4401	AISI 316
11	Base plate	Cast Iron	N/A		EN-GJL-450-10	ASTM 65-45-12	EN-GJL-450-10	ASTM 65-45-12
11A	Base plate	Cast Iron	EN-GJL-450-10	ASTM 35B 65-45-12	EN-GJL-450-10	ASTM 65-45-12	EN-GJL-450-10	ASTM 65-45-12
12	Mechanical seal	Cartridge type						
13	Bottom bearing ring	SIC / SIC						

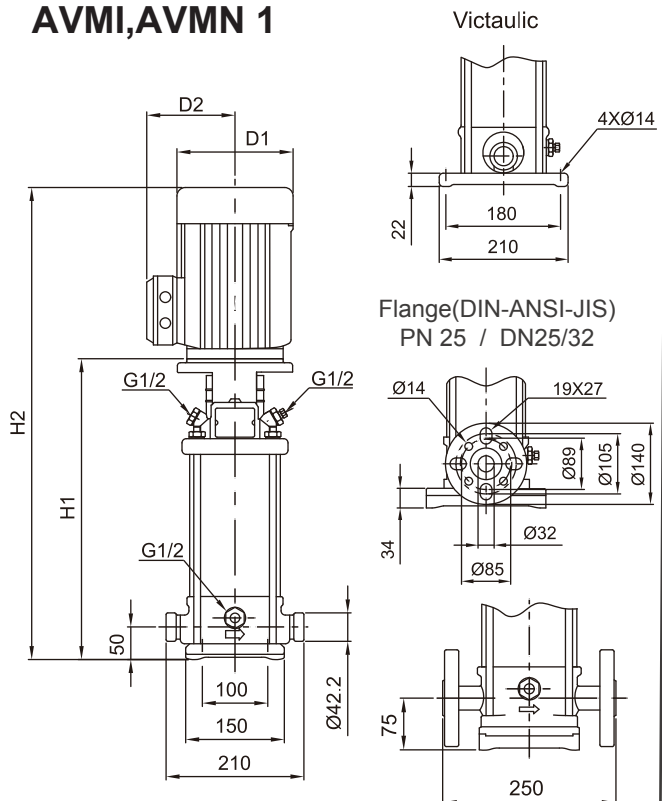
AVM,AVMI,AVMN 1



AVM 1



AVMI,AVMN 1



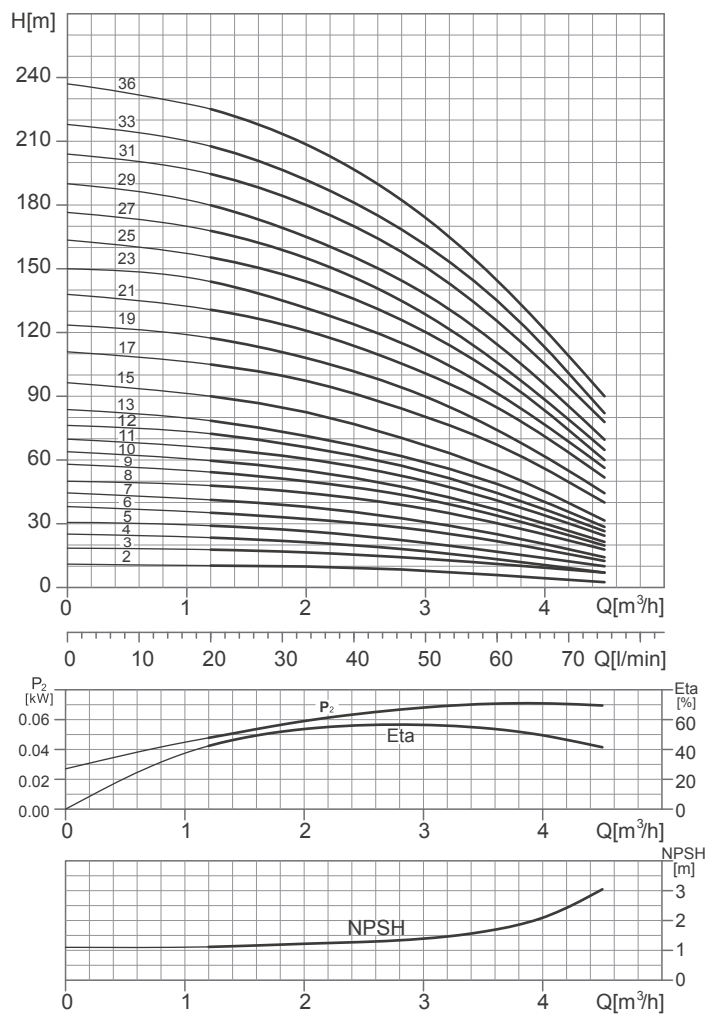
AVM 1

Model	Motor [P ₂]		AVM				
			Dimension [mm]				Net weight [kg]
	HP	kW	DIN flange		D1	D2	DIN flange
			H1	H2			
AVM 1-2	0.5	0.37	279	474	141	115	23.4
AVM 1-3	0.5	0.37	279	474	141	115	23.4
AVM 1-4	0.5	0.37	297	492	141	115	23.8
AVM 1-5	0.5	0.37	315	510	141	115	24.2
AVM 1-6	0.5	0.37	333	528	141	115	24.5
AVM 1-7	0.5	0.37	351	546	141	115	24.9
AVM 1-8	0.75	0.55	369	564	141	115	25.8
AVM 1-9	0.75	0.55	387	582	141	115	26.1
AVM 1-10	0.75	0.55	405	600	141	115	26.5
AVM 1-11	0.75	0.55	423	618	141	115	26.9
AVM 1-12	1.0	0.75	447	682	141	115	29.4
AVM 1-13	1.0	0.75	465	700	141	115	29.8
AVM 1-15	1.0	0.75	501	736	141	115	30.5
AVM 1-17	1.5	1.1	537	772	141	115	32.3
AVM 1-19	1.5	1.1	573	808	141	115	33.1
AVM 1-21	1.5	1.1	609	844	141	115	33.8
AVM 1-23	1.5	1.1	645	880	141	115	34.6
AVM 1-25	2.0	1.5	697	988	177	141	44.0
AVM 1-27	2.0	1.5	733	1024	177	141	44.8
AVM 1-30	2.0	1.5	787	1078	177	141	45.9
AVM 1-33	3.0	2.2	841	1132	177	141	49.9
AVM 1-36	3.0	2.2	895	1186	177	141	51.0

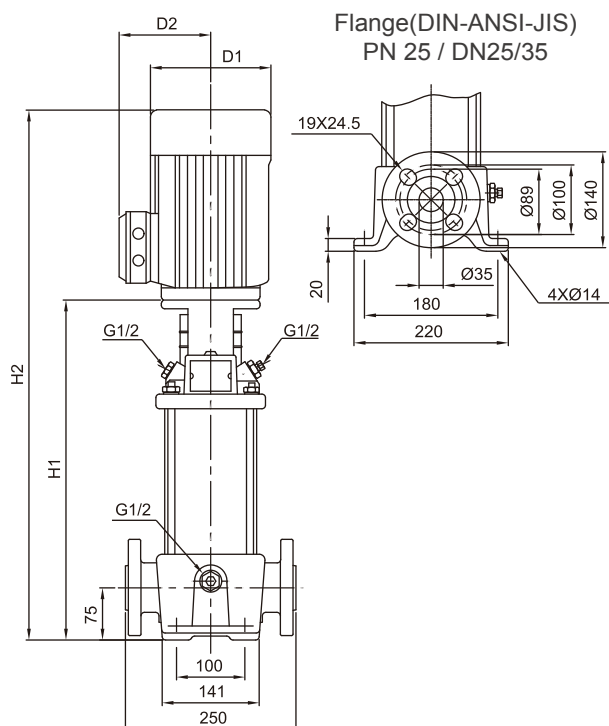
AVMI, AVMN 1

Model	Motor [P ₂]		AVMI, AVMN							
			Dimension [mm]						Net weight [kg]	
	HP	kW	Victaulic		DIN flange		D1	D2	Victaulic	DIN flange
			H1	H2	H1	H2				
AVMI,AVMN 1-2	0.5	0.37	257	452	282	477	141	115	19.3	20.2
AVMI,AVMN 1-3	0.5	0.37	257	452	282	477	141	115	19.3	20.3
AVMI,AVMN 1-4	0.5	0.37	275	470	300	495	141	115	19.7	20.6
AVMI,AVMN 1-5	0.5	0.37	293	488	318	513	141	115	20.1	21.0
AVMI,AVMN 1-6	0.5	0.37	311	506	336	531	141	115	20.4	21.4
AVMI,AVMN 1-7	0.5	0.37	329	524	354	549	141	115	20.8	21.7
AVMI,AVMN 1-8	0.75	0.55	347	542	372	567	141	115	21.7	22.6
AVMI,AVMN 1-9	0.75	0.55	365	560	390	585	141	115	22.0	23.0
AVMI,AVMN 1-10	0.75	0.55	383	578	408	603	141	115	22.4	23.3
AVMI,AVMN 1-11	0.75	0.55	401	596	426	621	141	115	22.8	23.7
AVMI,AVMN 1-12	1.0	0.75	425	660	450	685	141	115	25.2	26.1
AVMI,AVMN 1-13	1.0	0.75	443	678	468	703	141	115	25.6	26.5
AVMI,AVMN 1-15	1.0	0.75	479	714	504	739	141	115	26.3	27.2
AVMI,AVMN 1-17	1.5	1.1	515	760	540	775	141	115	28.1	29.1
AVMI,AVMN 1-19	1.5	1.1	551	786	576	811	141	115	28.8	29.8
AVMI,AVMN 1-21	1.5	1.1	587	822	612	847	141	115	29.6	30.6
AVMI,AVMN 1-23	1.5	1.1	623	858	648	883	141	115	30.4	31.3
AVMI,AVMN 1-25	2.0	1.5	675	966	700	991	177	141	39.8	40.8
AVMI,AVMN 1-27	2.0	1.5	711	1002	736	1027	177	141	40.6	41.5
AVMI,AVMN 1-30	2.0	1.5	765	1056	790	1081	177	141	41.7	42.6
AVMI,AVMN 1-33	3.0	2.2	819	1110	844	1135	177	141	45.6	46.6
AVMI,AVMN 1-36	3.0	2.2	873	1164	898	1189	177	141	46.7	47.7

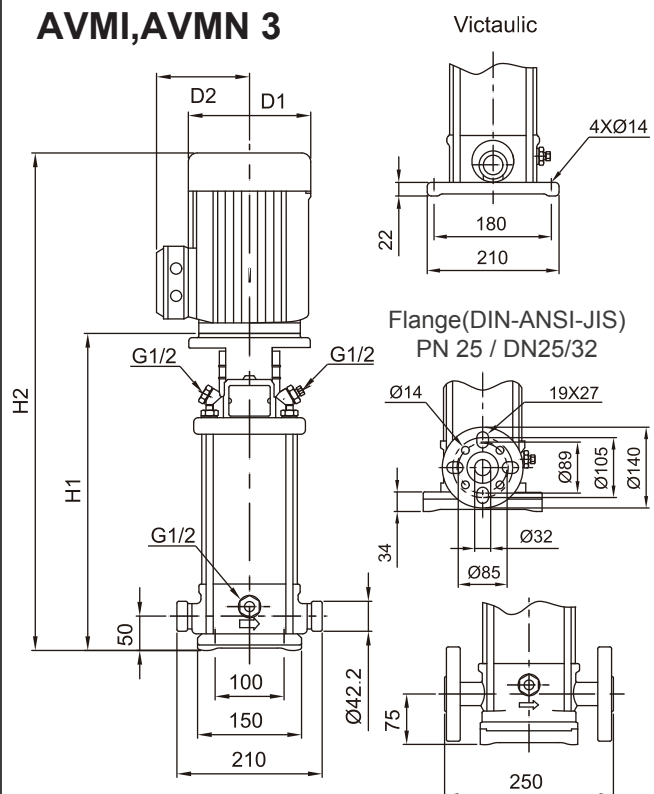
AVM,AVMI,AVMN 3



AVM 3



AVMI,AVMN 3



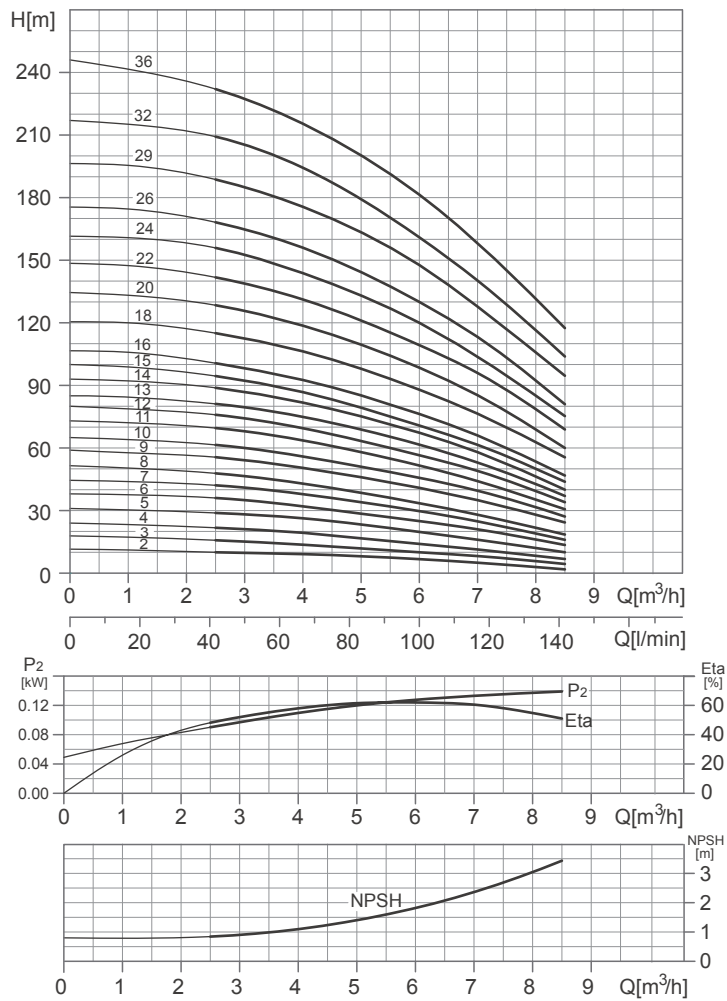
AVM 3

Model	Motor [P2]		AVM				
			Dimension [mm]				Net weight [kg]
	HP	kW	DIN flange		D1	D2	DIN flange
			H1	H2			
AVM 3-2	0.5	0.37	279	474	141	115	23.4
AVM 3-3	0.5	0.37	279	474	141	115	23.4
AVM 3-4	0.5	0.37	297	492	141	115	23.8
AVM 3-5	0.5	0.37	315	510	141	115	24.2
AVM 3-6	0.75	0.55	333	528	141	115	25.0
AVM 3-7	0.75	0.55	351	546	141	115	25.4
AVM 3-8	1.0	0.75	375	610	141	115	27.9
AVM 3-9	1.0	0.75	393	628	141	115	28.3
AVM 3-10	1.0	0.75	411	646	141	115	28.7
AVM 3-11	1.5	1.1	429	664	141	115	30.2
AVM 3-12	1.5	1.1	447	682	141	115	30.5
AVM 3-13	1.5	1.1	465	700	141	115	30.9
AVM 3-15	1.5	1.1	501	736	141	141	31.6
AVM 3-17	2.0	1.5	553	844	177	141	41.0
AVM 3-19	2.0	1.5	589	880	177	141	41.8
AVM 3-21	3.0	2.2	625	916	177	141	45.3
AVM 3-23	3.0	2.2	661	952	177	141	46.1
AVM 3-25	3.0	2.2	697	988	177	141	46.8
AVM 3-27	3.0	2.2	733	1024	177	141	47.6
AVM 3-29	3.0	2.2	769	1060	177	141	48.3
AVM 3-31	4.0	3.0	809	1125	197	147	56.6
AVM 3-33	4.0	3.0	845	1161	197	147	57.4
AVM 3-36	4.0	3.0	899	1215	197	147	58.5

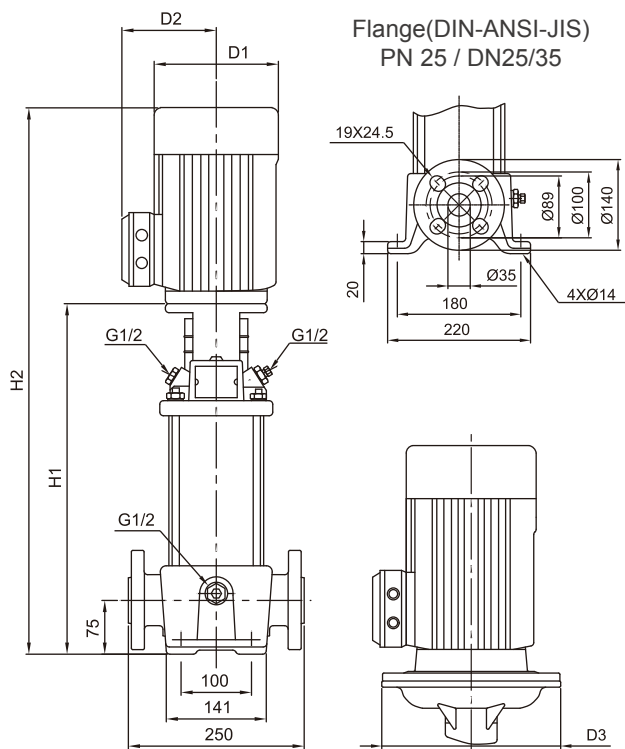
AVMI,AVMN 3

Model	Motor [P2]		AVMI, AVMN							
			Dimension [mm]						Net weight [kg]	
	HP	kW	Victaulic		DIN flange		D1	D2	Victaulic	DIN flange
			H1	H2	H1	H2				
AVMI,AVMN 3-2	0.5	0.37	257	452	282	477	141	115	19.3	20.2
AVMI,AVMN 3-3	0.5	0.37	257	452	282	477	141	115	19.3	20.3
AVMI,AVMN 3-4	0.5	0.37	275	470	300	495	141	115	19.7	20.6
AVMI,AVMN 3-5	0.5	0.37	293	488	318	513	141	115	20.1	21.0
AVMI,AVMN 3-6	0.75	0.55	311	506	336	531	141	115	20.9	21.9
AVMI,AVMN 3-7	0.75	0.55	329	524	354	549	141	115	21.3	22.2
AVMI,AVMN 3-8	1.0	0.75	353	588	378	613	141	115	23.7	24.6
AVMI,AVMN 3-9	1.0	0.75	371	606	396	631	141	115	24.0	25.0
AVMI,AVMN 3-10	1.0	0.75	389	624	414	649	141	115	24.4	25.4
AVMI,AVMN 3-11	1.5	1.1	407	642	432	667	141	115	25.9	26.9
AVMI,AVMN 3-12	1.5	1.1	425	660	450	685	141	115	26.3	27.2
AVMI,AVMN 3-13	1.5	1.1	443	678	468	703	141	115	26.7	27.6
AVMI,AVMN 3-15	1.5	1.1	479	714	504	739	141	115	27.4	28.3
AVMI,AVMN 3-17	2.0	1.5	531	822	556	847	177	115	36.9	37.8
AVMI,AVMN 3-19	2.0	1.5	567	858	592	883	117	115	37.6	38.5
AVMI,AVMN 3-21	3.0	2.2	603	894	628	919	177	141	41.2	42.1
AVMI,AVMN 3-23	3.0	2.2	639	930	664	955	177	141	41.9	42.9
AVMI,AVMN 3-25	3.0	2.2	675	966	700	991	177	141	42.6	43.6
AVMI,AVMN 3-27	3.0	2.2	711	1002	736	1027	177	141	43.4	44.3
AVMI,AVMN 3-29	3.0	2.2	747	1038	772	1063	177	141	44.1	45.1
AVMI,AVMN 3-31	4.0	3.0	787	1103	812	1128	197	141	52.0	53.0
AVMI,AVMN 3-33	4.0	3.0	823	1139	848	1164	197	147	52.8	53.7
AVMI,AVMN 3-36	4.0	3.0	877	1193	902	1218	197	147	53.9	54.8

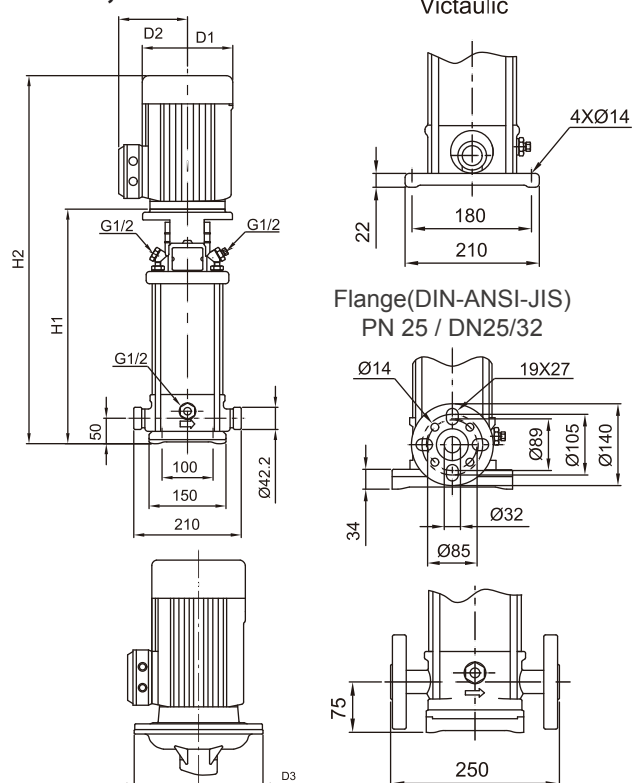
AVM,AVMI,AVMN 5



AVM 5



AVMI,AVMN 5



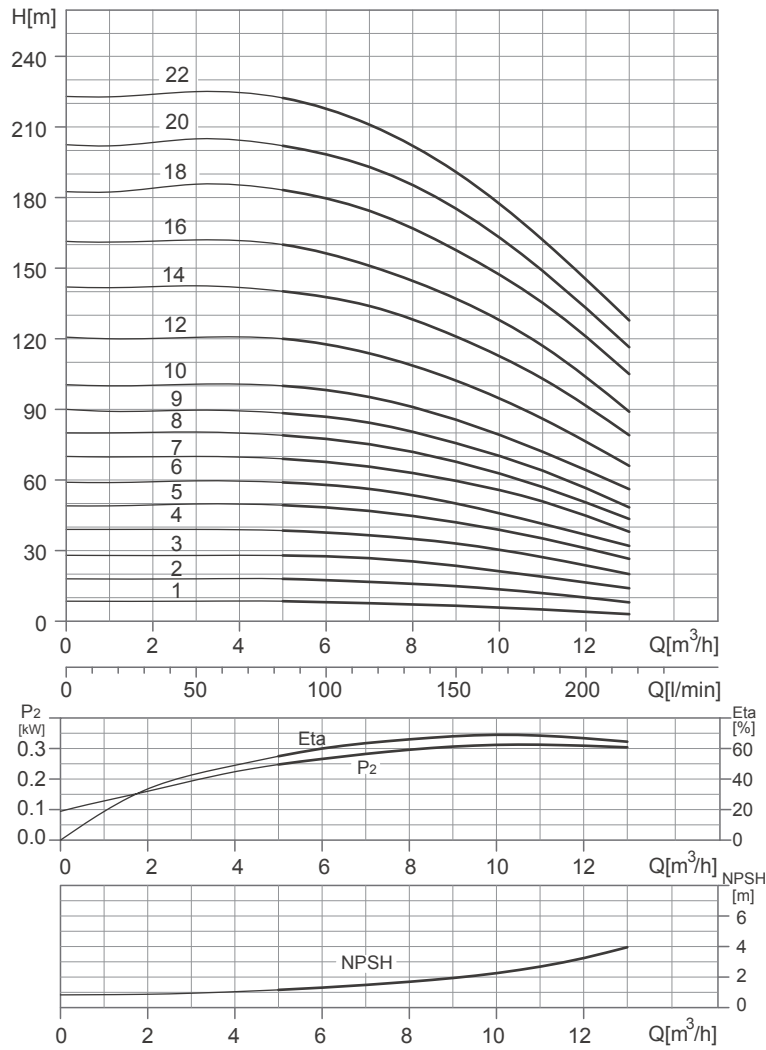
AVM 5

Model	Motor [P ₂]		AVM					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	
			H1	H2				
AVM 5-2	0.5	0.37	279	474	141	115	-	23.3
AVM 5-3	0.75	0.55	306	501	141	115	-	24.2
AVM 5-4	0.75	0.55	333	528	141	115	-	24.8
AVM 5-5	1.0	0.75	366	601	141	115	-	27.4
AVM 5-6	1.5	1.1	393	628	141	115	-	29.1
AVM 5-7	1.5	1.1	420	655	141	115	-	29.6
AVM 5-8	1.5	1.1	447	682	141	115	-	30.1
AVM 5-9	2.0	1.5	490	781	177	141	-	39.3
AVM 5-10	2.0	1.5	517	808	177	141	-	39.9
AVM 5-11	3.0	2.2	544	835	177	141	-	43.2
AVM 5-12	3.0	2.2	571	862	177	141	-	43.7
AVM 5-13	3.0	2.2	598	889	177	141	-	44.2
AVM 5-14	3.0	2.2	625	916	177	141	-	44.8
AVM 5-15	3.0	2.2	652	943	177	141	-	45.2
AVM 5-16	3.0	2.2	679	970	177	141	-	45.8
AVM 5-18	4.0	3.0	737	1053	197	147	-	54.3
AVM 5-20	4.0	3.0	791	1107	197	147	-	55.5
AVM 5-22	5.5	4.0	845	1171	220	161	-	59.8
AVM 5-24	5.5	4.0	899	1225	220	161	-	60.8
AVM 5-26	5.5	4.0	953	1279	220	161	-	62.7
AVM 5-29	5.5	4.0	1034	1360	220	161	-	64.6
AVM 5-32	7.5	5.5	1145	1507	235	197	300	90.1
AVM 5-36	7.5	5.5	1253	1615	235	197	300	92.6

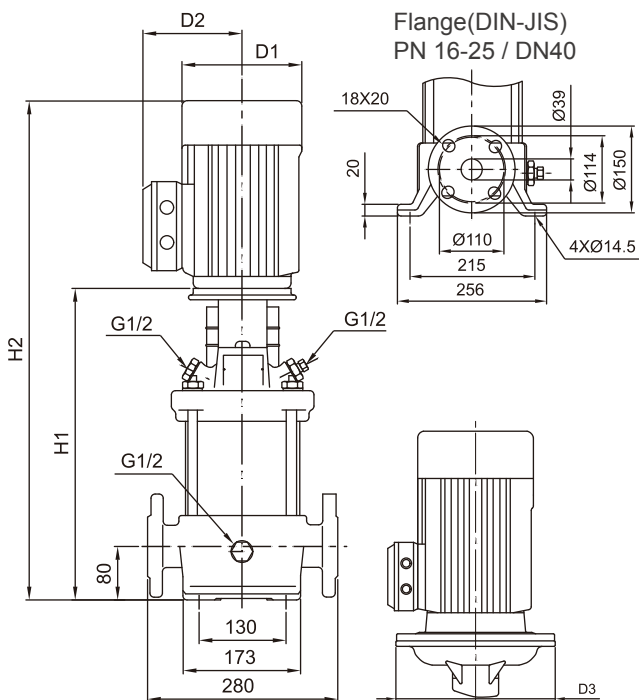
AVMI,AVMN 5

Model	Motor [P ₂]		AVMI, AVMN								
			Dimension [mm]							Net weight [kg]	
	HP	kW	Victaulic		DIN flange		D1	D2	D3	Victaulic	DIN flange
			H1	H2	H1	H2					
AVMI,AVMN 5-2	0.5	0.37	257	452	282	477	141	115	-	19.2	20.1
AVMI,AVMN 5-3	0.75	0.55	284	479	309	504	141	115	-	20.3	21.2
AVMI,AVMN 5-4	0.75	0.55	311	506	336	531	141	115	-	20.8	21.8
AVMI,AVMN 5-5	1.0	0.75	344	579	369	604	141	115	-	23.4	24.3
AVMI,AVMN 5-6	1.5	1.1	371	606	396	631	141	115	-	25.1	26.0
AVMI,AVMN 5-7	1.5	1.1	398	633	423	658	141	115	-	25.6	26.5
AVMI,AVMN 5-8	1.5	1.1	425	660	450	685	141	115	-	26.1	27.1
AVMI,AVMN 5-9	2.0	1.5	468	759	493	784	177	141	-	35.4	36.4
AVMI,AVMN 5-10	2.0	1.5	495	786	520	811	177	141	-	36.0	36.9
AVMI,AVMN 5-11	3.0	2.2	522	813	547	838	177	141	-	39.3	40.3
AVMI,AVMN 5-12	3.0	2.2	549	840	574	865	177	141	-	39.9	40.8
AVMI,AVMN 5-13	3.0	2.2	576	867	601	892	177	141	-	40.4	41.4
AVMI,AVMN 5-14	3.0	2.2	603	894	628	919	177	141	-	41.0	41.9
AVMI,AVMN 5-15	3.0	2.2	630	921	655	946	177	141	-	41.5	42.5
AVMI,AVMN 5-16	3.0	2.2	657	948	682	973	177	141	-	42.1	43.0
AVMI,AVMN 5-18	4.0	3.0	715	1031	740	1056	197	147	-	50.3	51.3
AVMI,AVMN 5-20	4.0	3.0	769	1085	794	1110	197	147	-	51.6	52.5
AVMI,AVMN 5-22	5.5	4.0	823	1149	848	1174	220	161	-	55.8	56.8
AVMI,AVMN 5-24	5.5	4.0	877	1203	902	1228	220	161	-	56.9	57.8
AVMI,AVMN 5-26	5.5	4.0	931	1257	956	1282	220	161	-	58.0	58.9
AVMI,AVMN 5-29	5.5	4.0	1012	1338	1037	1363	220	161	-	59.7	60.6
AVMI,AVMN 5-32	7.5	5.5	1123	1485	1148	1510	235	197	300	84.9	85.8
AVMI,AVMN 5-36	7.5	5.5	1231	1593	1256	1618	235	197	300	87.1	88.1

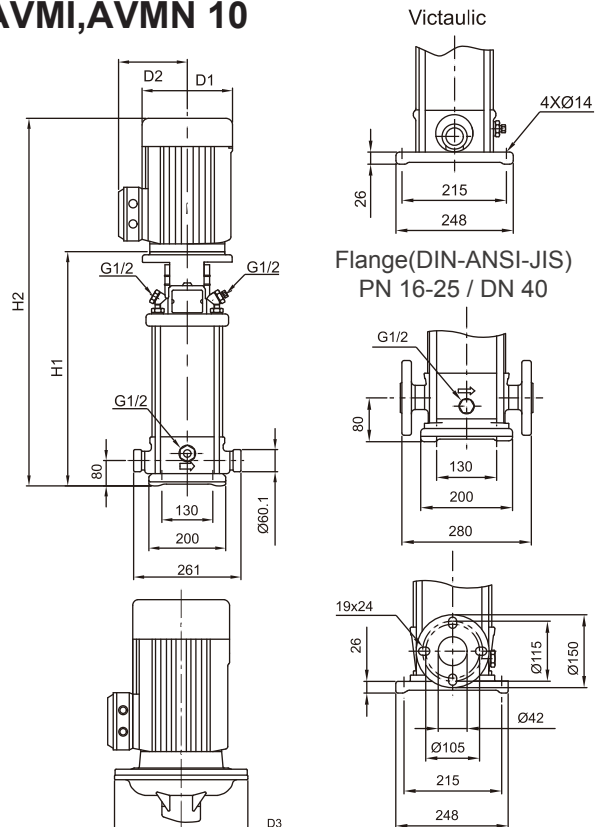
AVM, AVMI, AVMN 10



AVM 10



AVMI, AVMN 10



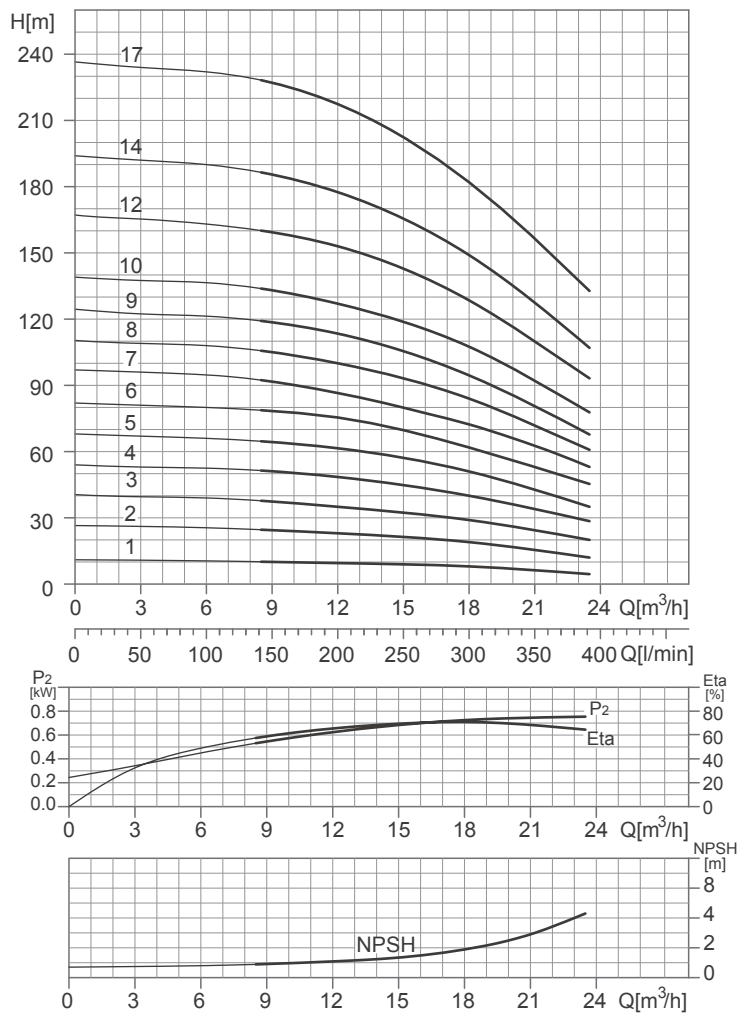
AVM 10

Model	Motor [P ₂]		AVM					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	DIN flange
			H1	H2				
AVM 10-1	0.5	0.37	343	538	141	115	-	35.9
AVM 10-2	1.0	0.75	347	582	141	115	-	38.2
AVM 10-3	1.5	1.1	377	612	141	115	-	40.3
AVM 10-4	2.0	1.5	423	714	177	141	-	50.1
AVM 10-5	3.0	2.2	453	744	177	141	-	53.9
AVM 10-6	3.0	2.2	483	774	177	141	-	55.0
AVM 10-7	4.0	3.0	518	834	197	147	-	63.8
AVM 10-8	4.0	3.0	548	864	197	147	-	64.9
AVM 10-9	4.0	3.0	578	894	197	147	-	65.9
AVM 10-10	5.5	4.0	608	934	220	161	-	70.3
AVM 10-12	5.5	4.0	668	994	220	161	-	72.4
AVM 10-14	7.5	5.5	760	1122	235	197	300	104.1
AVM 10-16	7.5	5.5	820	1182	235	197	300	106.2
AVM 10-18	10.0	7.5	880	1278	235	197	300	113.6
AVM 10-20	10.0	7.5	940	1338	235	197	300	116.7
AVM 10-22	10.0	7.5	1000	1398	235	197	300	118.8

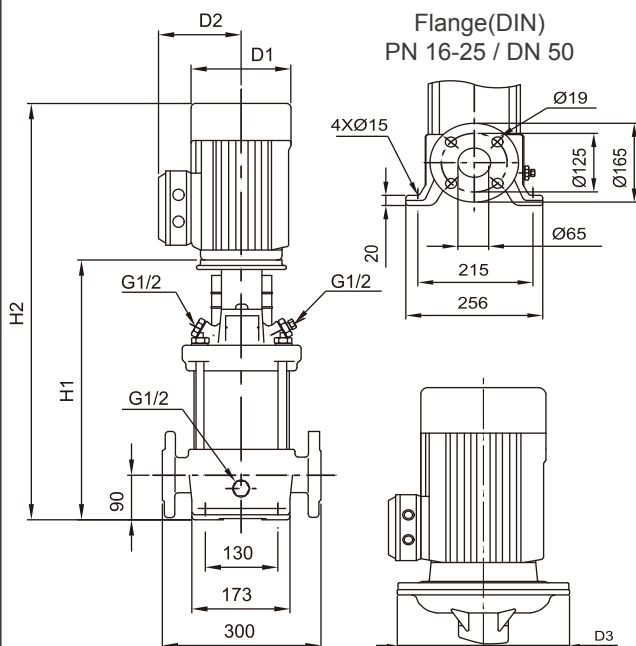
VMI,VMN 10

Model	Motor [P ₂]		AVMI, AVMN								
			Dimension [mm]							Net weight [kg]	
	HP	kW	Victaulic		DIN flange		D1	D2	D3	Victaulic	DIN flange
			H1	H2	H1	H2					
AVMI,AVMN 10-1	0.5	0.37	353	548	353	548	141	115	-	31.6	31.4
AVMI,AVMN 10-2	1.0	0.75	357	592	357	592	141	115	-	34.3	34.2
AVMI,AVMN 10-3	1.5	1.1	387	622	387	622	141	115	-	36.4	36.3
AVMI,AVMN 10-4	2.0	1.5	433	724	433	724	177	141	-	46.1	46.0
AVMI,AVMN 10-5	3.0	2.2	463	754	463	754	177	141	-	50.0	49.8
AVMI,AVMN 10-6	3.0	2.2	493	784	493	784	177	141	-	51.0	50.8
AVMI,AVMN 10-7	4.0	3.0	528	844	528	844	197	147	-	59.1	58.9
AVMI,AVMN 10-8	4.0	3.0	558	874	558	874	197	147	-	60.1	60.0
AVMI,AVMN 10-9	4.0	3.0	588	904	588	904	197	147	-	61.1	61.0
AVMI,AVMN 10-10	5.5	4.0	618	944	618	944	220	161	-	65.6	65.4
AVMI,AVMN 10-12	5.5	4.0	678	1004	678	1004	220	161	-	67.6	67.5
AVMI,AVMN 10-14	7.5	5.5	770	1132	770	1132	235	197	300	100.4	100.3
AVMI,AVMN 10-16	7.5	5.5	830	1192	830	1192	235	197	300	102.5	102.4
AVMI,AVMN 10-18	10.0	7.5	890	1288	890	1288	235	197	300	110.9	110.8
AVMI,AVMN 10-20	10.0	7.5	950	1348	950	1348	235	197	300	113.0	112.8
AVMI,AVMN 10-22	10.0	7.5	1010	1408	1010	1408	235	197	300	115.1	114.9

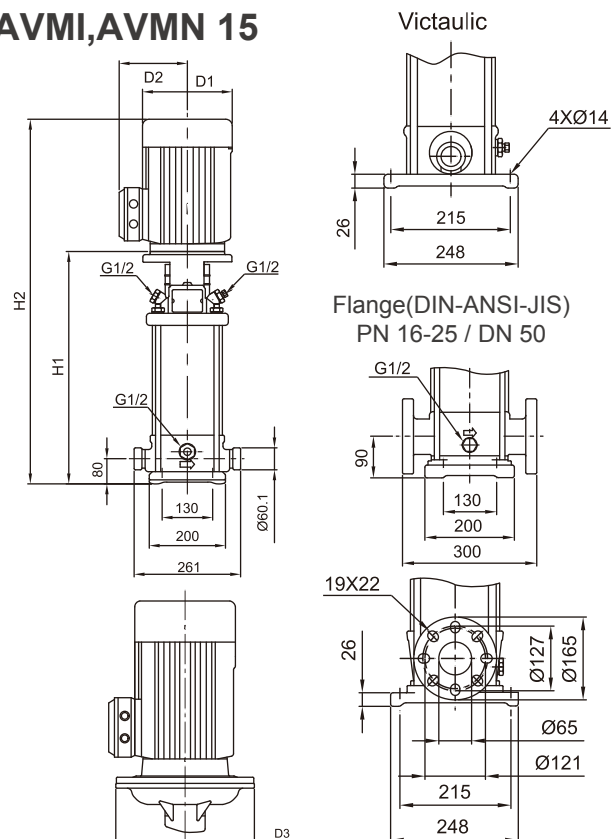
AVM, AVMI, AVMN 15



AVM 15



AVMI, AVMN 15



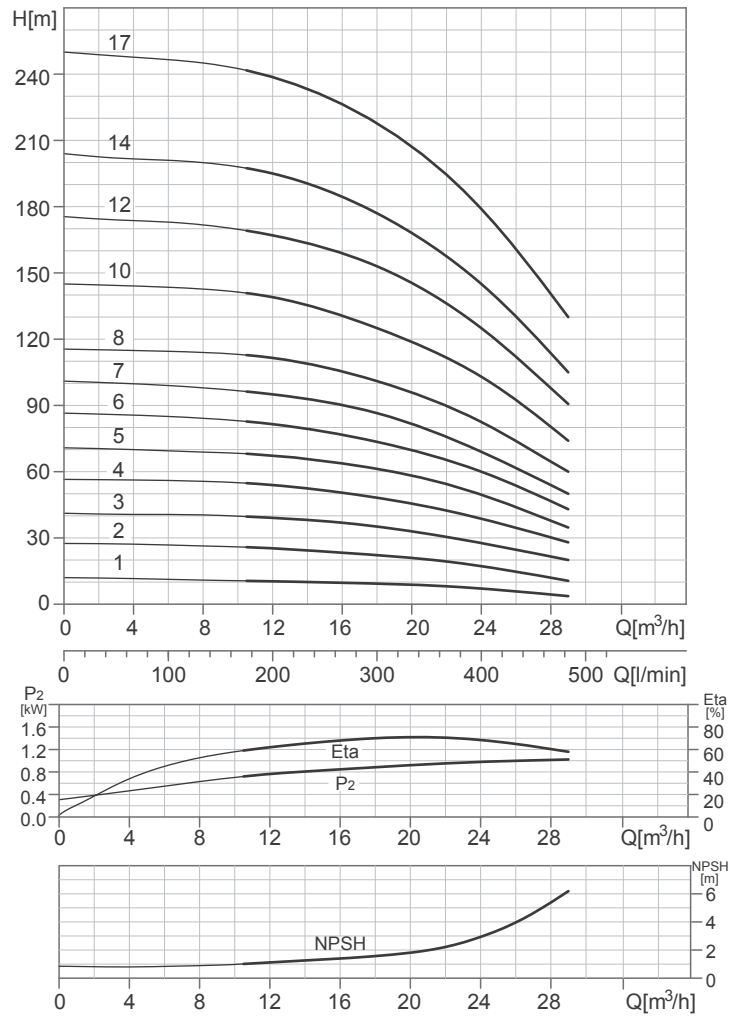
AVM 15

Model	Motor [P2]		AVM					
			Dimension [mm]					Net weight [kg]
	DIN flange		D1	D2	D3			
	H1	H2				DIN flange		
AVM 15-1	1.5	1.1	400	635	141	115	-	43.8
AVM 15-2	3.0	2.2	415	706	177	141	-	55.7
AVM 15-3	4.0	3.0	465	781	197	147	-	64.9
AVM 15-4	5.5	4.0	510	836	220	161	-	69.7
AVM 15-5	5.5	4.0	555	881	220	161	-	71.2
AVM 15-6	7.5	5.5	632	994	235	197	300	102.3
AVM 15-7	7.5	5.5	677	1039	235	197	300	103.8
AVM 15-8	10.0	7.5	722	1120	235	197	300	111.8
AVM 15-9	10.0	7.5	767	1165	235	197	300	113.3
AVM 15-10	15.0	11.0	889	1394	318	154	300	150.0
AVM 15-12	15.0	11.0	979	1484	318	154	300	153.0
AVM 15-14	15.0	11.0	1069	1574	318	154	300	156.3
AVM 15-17	20.0	15.0	1204	1714	318	154	300	171.5

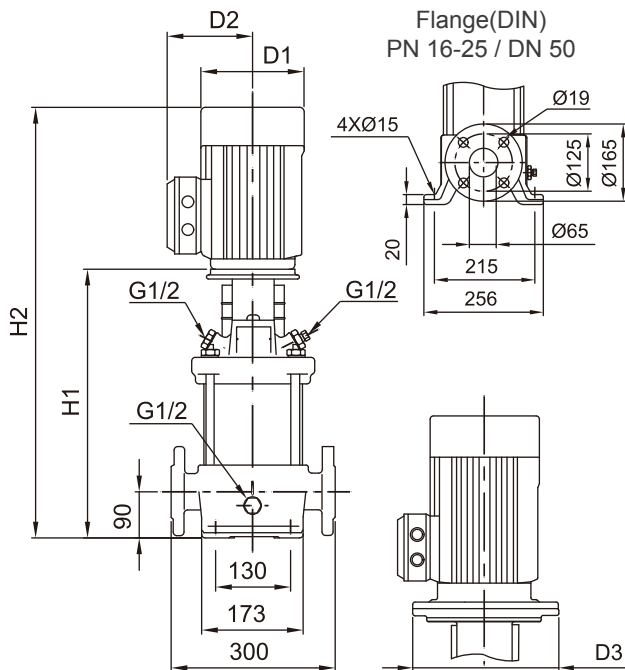
AVMI,AVMN 15

Model	Motor [P ₂]		AVMI, AVMN								
			Dimension [mm]							Net weight [kg]	
	HP	kW	Victaulic		DIN flange		D1	D2	D3	Victaulic	DIN flange
			H1	H2	H1	H2					
AVMI,AVMN 15-1	1.5	1.1	387	622	397	632	141	115	-	36.0	36.6
AVMI,AVMN 15-2	3.0	2.2	403	694	413	704	177	141	-	47.7	48.3
AVMI,AVMN 15-3	4.0	3.0	453	769	463	779	197	147	-	56.1	56.7
AVMI,AVMN 15-4	5.5	4.0	498	824	508	834	220	161	-	61.0	61.6
AVMI,AVMN 15-5	5.5	4.0	543	869	553	879	220	161	-	62.4	63.0
AVMI,AVMN 15-6	7.5	5.5	620	982	630	992	235	197	300	94.6	95.3
AVMI,AVMN 15-7	7.5	5.5	665	1027	675	1037	235	197	300	96.1	96.7
AVMI,AVMN 15-8	10.0	7.5	710	1108	720	1118	235	197	300	104.1	104.7
AVMI,AVMN 15-9	10.0	7.5	755	1153	765	1163	235	197	300	105.6	106.2
AVMI,AVMN 15-10	15.0	11.0	877	1382	887	1392	318	154	350	142.7	143.3
AVMI,AVMN 15-12	15.0	11.0	967	1472	977	1482	318	154	350	145.5	146.2
AVMI,AVMN 15-14	15.0	11.0	1057	1562	1067	1572	318	154	350	148.5	149.1
AVMI,AVMN 15-17	20.0	15.0	1192	1702	1202	1712	318	154	350	162.9	163.5

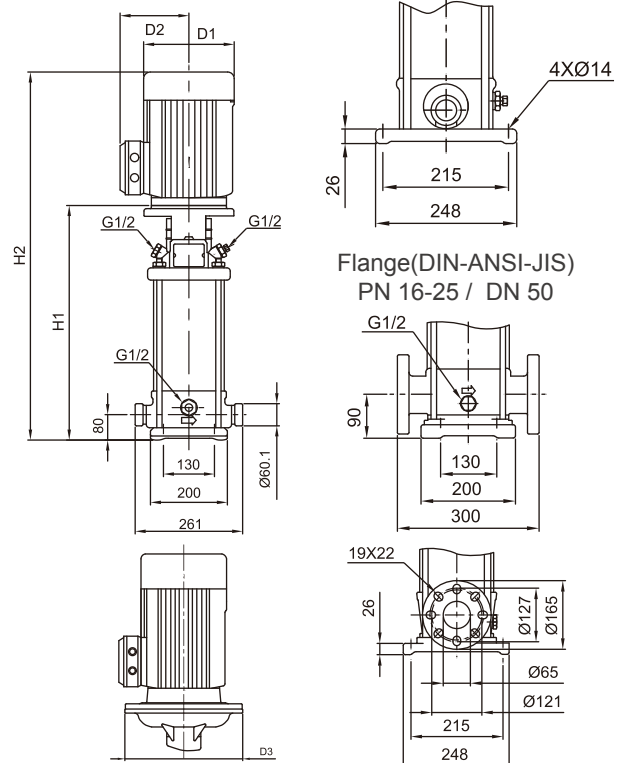
AVM, AVMI, AVMN 20



AVM 20



AVMI, AVMN 20



AVM 20

Model	Motor [P2]		AVM					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	
			H1	H2				
AVM 20-1	1.5	1.1	400	636	141	115	-	43.9
AVM 20-2	3.0	2.2	415	708	177	141	-	55.7
AVM 20-3	5.5	4.0	465	795	220	161	-	68.3
AVM 20-4	7.5	5.5	542	910	235	197	300	99.4
AVM 20-5	7.5	5.5	587	955	235	197	300	100.8
AVM 20-6	10.0	7.5	632	1038	235	197	300	108.6
AVM 20-7	10.0	7.5	677	1083	235	197	300	110.1
AVM 20-8	15.0	11.0	799	1315	318	245	350	147.1
AVM 20-10	15.0	11.0	889	1405	318	245	350	150.0
AVM 20-12	20.0	15.0	979	1504	318	245	350	163.1
AVM 20-14	20.0	15.0	1069	1594	318	245	350	166.0
AVM 20-17	25.0	18.5	1204	1773	318	245	350	195.4

AVMI,AVMN 20

Model	Motor [P ₂]		AVMI, AVMN								
			Dimension [mm]							Net weight [kg]	
	HP	kW	Victaulic		DIN flange		D1	D2	D3	Victaulic	DIN flange
			H1	H2	H1	H2					
AVMI,AVMN 20-1	1.5	1.1	387	653	397	632	141	115	-	36.0	36.6
AVMI,AVMN 20-2	3.0	2.2	403	696	413	704	177	141	-	47.7	48.3
AVMI,AVMN 20-3	5.5	4.0	453	783	463	789	220	161	-	59.5	60.2
AVMI,AVMN 20-4	7.5	5.5	530	898	540	902	235	197	300	91.7	92.3
AVMI,AVMN 20-5	7.5	5.5	575	943	585	947	235	197	300	93.2	93.8
AVMI,AVMN 20-6	10.0	7.5	620	1026	630	1028	235	197	300	100.9	101.6
AVMI,AVMN 20-7	10.0	7.5	665	1071	675	1073	235	197	300	102.4	103.0
AVMI,AVMN 20-8	15.0	11.0	787	1303	797	1302	318	245	350	139.7	140.3
AVMI,AVMN 20-10	15.0	11.0	877	1393	887	1392	318	245	350	142.7	143.3
AVMI,AVMN 20-12	20.0	15.0	967	1492	977	1487	318	245	350	155.7	156.3
AVMI,AVMN 20-14	20.0	15.0	1057	1582	1067	1577	318	245	350	158.6	159.2
AVMI,AVMN 20-17	25.0	18.5	1192	1761	1202	1752	318	245	350	187.8	188.5

20

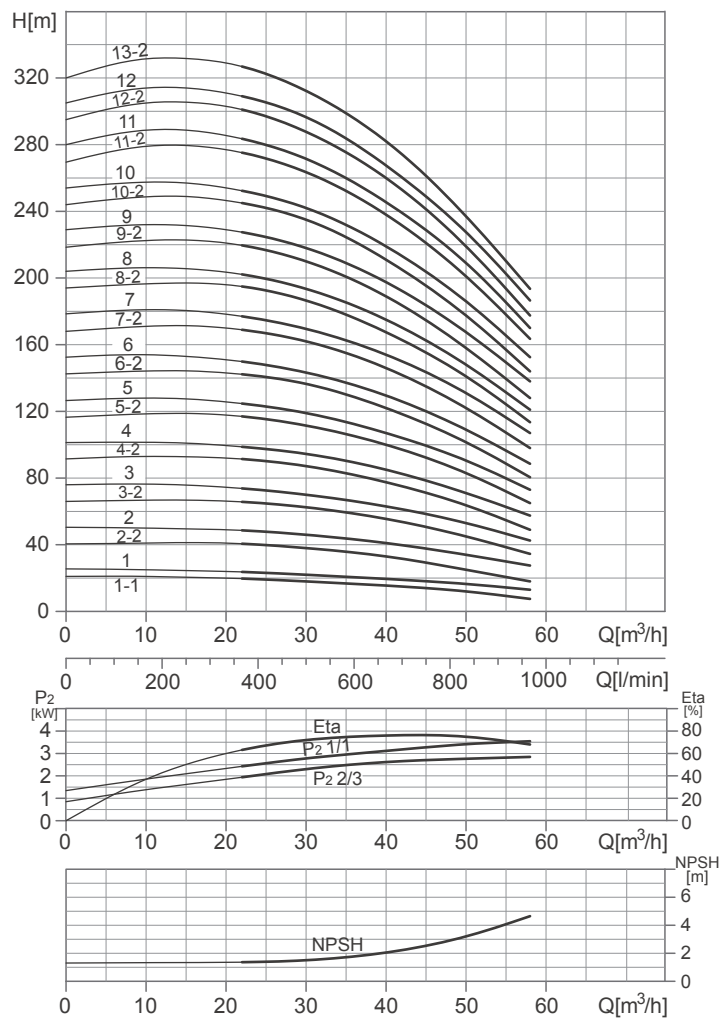
AVM 32

Model	Motor [P2]		AVM						Net weight [kg]
			Dimension [mm]						
	HP	kW	DIN flange		D1	D2	D3		
			H1	H2				DIN flange	
AVM 32-1-1	2.0	1.5	504	795	177	141	280	71.5	
AVM 32-1	3.0	2.2	504	795	177	141	280	74.3	
AVM 32-2-2	4.0	3.0	574	935	197	147	280	84.2	
AVM 32-2	5.5	4.0	574	900	220	161	280	87.6	
AVM 32-3-2	7.5	5.5	644	1006	235	197	300	110.2	
AVM 32-3	7.5	5.5	644	1006	235	197	300	110.2	
AVM 32-4-2	10.0	7.5	714	1112	235	197	300	119.5	
AVM 32-4	10.0	7.5	714	1112	235	197	300	119.5	
AVM 32-5-2	15.0	11.0	894	1399	318	245	350	163.3	
AVM 32-5	15.0	11.0	894	1399	318	245	350	163.3	
AVM 32-6-2	15.0	11.0	964	1469	318	245	350	166.3	
AVM 32-6	15.0	11.0	964	1469	318	245	350	166.3	
AVM 32-7-2	20.0	15.0	1034	1544	235	245	350	179.5	
AVM 32-7	20.0	15.0	1034	1544	235	245	350	179.5	
AVM 32-8-2	20.0	15.0	1104	1614	318	245	350	182.6	
AVM 32-8	20.0	15.0	1104	1614	318	245	350	182.6	
AVM 32-9-2	25.0	18.5	1174	1724	318	245	350	210.6	
AVM 32-9	25.0	18.5	1174	1724	318	245	350	210.6	
AVM 32-10-2	25.0	18.5	1244	1794	318	245	350	212.7	
AVM 32-10	25.0	18.5	1244	1794	318	245	350	213.7	
AVM 32-11-2	30.0	22.0	1314	1894	358	265	350	258.8	
AVM 32-11	30.0	22.0	1314	1894	358	265	350	258.8	
AVM 32-12-2	30.0	22.0	1384	1964	358	265	350	260.8	
AVM 32-12	30.0	22.0	1384	1964	358	265	350	260.8	
AVM 32-13-2	40.0	30.0	1454	2114	420	295	400	328.2	
AVM 32-13	40.0	30.0	1454	2114	420	295	400	328.2	
AVM 32-14-2	40.0	30.0	1524	2184	420	295	400	331.3	
AVM 32-14	40.0	30.0	1524	2184	420	295	400	331.3	

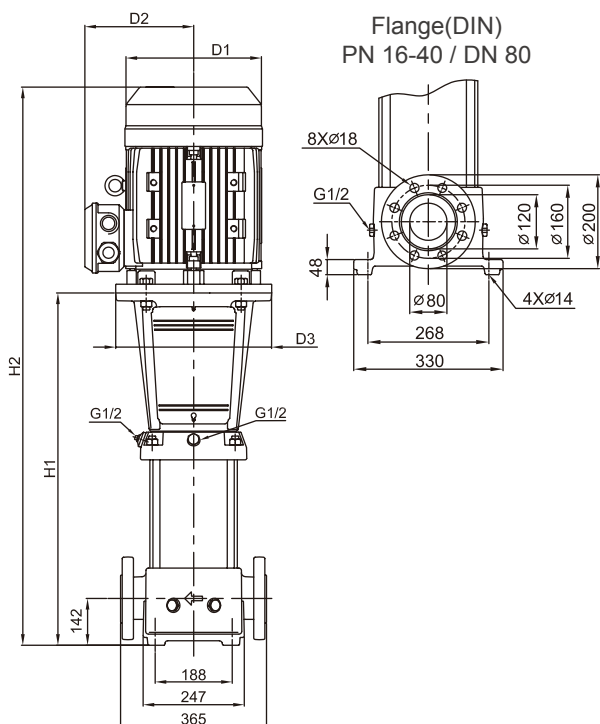
AVMI,AVMN 32

Model	Motor [P ₂]		AVMI, AVMN					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	
			H1	H2				
AVMI,AVMN 32-1-1	2.0	1.5	504	795	177	141	280	66.5
AVMI,AVMN 32-1	3.0	2.2	504	795	177	141	280	69.3
AVMI,AVMN 32-2-2	4.0	3.0	574	935	197	147	280	79.1
AVMI,AVMN 32-2	5.5	4.0	574	900	220	161	280	82.5
AVMI,AVMN 32-3-2	7.5	5.5	644	1006	235	197	300	105.1
AVMI,AVMN 32-3	7.5	5.5	644	1006	235	197	300	105.1
AVMI,AVMN 32-4-2	10.0	7.5	714	1112	235	197	300	114.5
AVMI,AVMN 32-4	10.0	7.5	714	1112	235	197	300	114.6
AVMI,AVMN 32-5-2	15.0	11.0	894	1399	318	245	350	158.2
AVMI,AVMN 32-5	15.0	11.0	894	1399	318	245	350	158.3
AVMI,AVMN 32-6-2	15.0	11.0	964	1469	318	245	350	161.3
AVMI,AVMN 32-6	15.0	11.0	964	1469	318	245	350	161.4
AVMI,AVMN 32-7-2	20.0	15.0	1034	1544	318	245	350	174.6
AVMI,AVMN 32-7	20.0	15.0	1034	1544	318	245	350	174.6
AVMI,AVMN 32-8-2	20.0	15.0	1104	1614	318	245	350	177.9
AVMI,AVMN 32-8	20.0	15.0	1104	1614	318	245	350	177.9
AVMI,AVMN 32-9-2	25.0	18.5	1174	1724	318	245	350	205.5
AVMI,AVMN 32-9	25.0	18.5	1174	1724	318	245	350	205.6
AVMI,AVMN 32-10-2	25.0	18.5	1244	1794	318	245	350	208.1
AVMI,AVMN 32-10	25.0	18.5	1244	1794	318	245	350	208.2
AVMI,AVMN 32-11-2	30.0	22.0	1314	1894	358	265	350	253.6
AVMI,AVMN 32-11	30.0	22.0	1314	1894	358	265	350	253.6
AVMI,AVMN 32-12-2	30.0	22.0	1384	1964	358	265	350	256.3
AVMI,AVMN 32-12	30.0	22.0	1384	1964	358	265	350	256.3
AVMI,AVMN 32-13-2	40.0	30.0	1454	2114	420	295	400	323.6
AVMI,AVMN 32-13	40.0	30.0	1454	2114	420	295	400	323.6
AVMI,AVMN 32-14-2	40.0	30.0	1524	2184	420	295	400	326.3
AVMI,AVMN 32-14	40.0	30.0	1524	2184	420	295	400	326.3

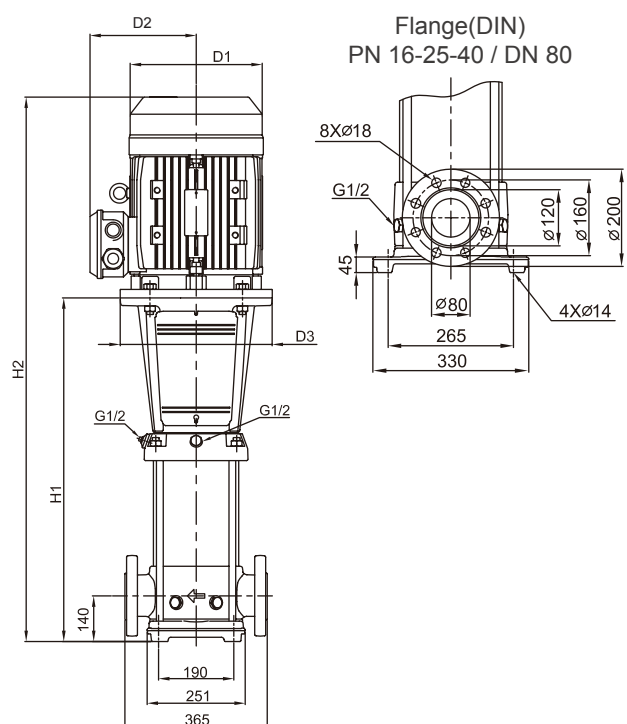
AVM, AVMI, AVMN 45



AVM 45



AVMI, AVMN 45



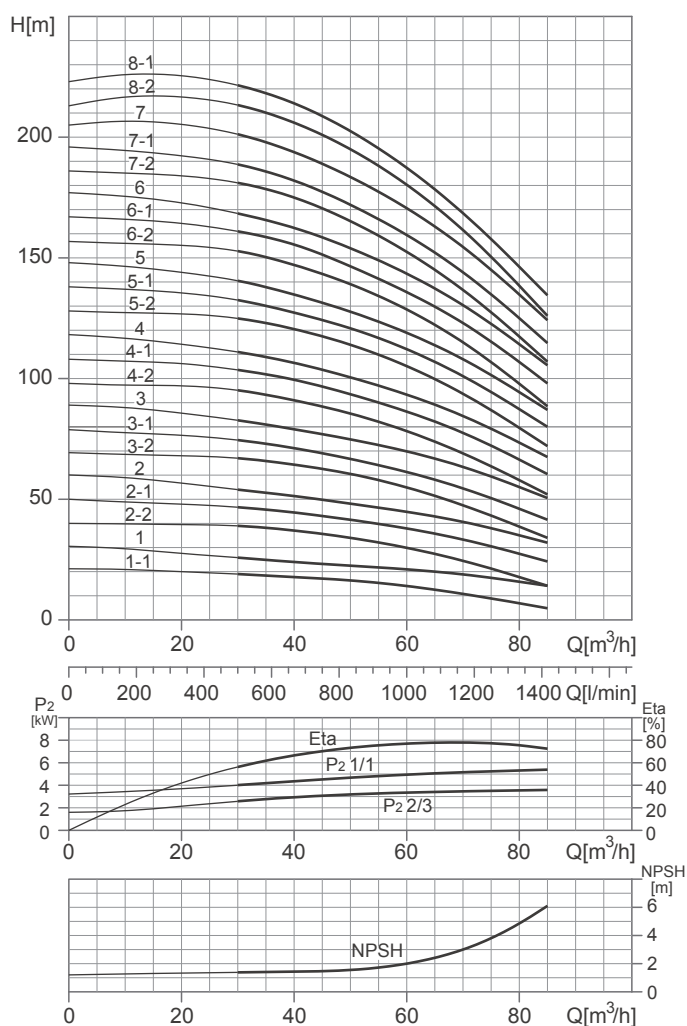
AVM 45

Model	Motor [P2]		AVM					
			Dimension [mm]					Net weight [kg]
	DIN flange							
			H1	H2	DIN flange			
AVM 45-1-1	4.0	3.0	561	877	197	147	280	91.7
AVM 45-1	5.5	4.0	561	887	220	161	280	95.1
AVM 45-2-2	7.5	5.5	641	1003	235	197	300	118.3
AVM 45-2	10.0	7.5	641	1039	318	197	300	124.6
AVM 45-3-2	15.0	11.0	831	1336	318	245	300	169.0
AVM 45-3	15.0	11.0	831	1336	318	245	350	169.0
AVM 45-4-2	20.0	15.0	911	1421	318	245	350	182.9
AVM 45-4	20.0	15.0	911	1421	318	245	350	182.9
AVM 45-5-2	25.0	18.5	991	1541	318	245	350	211.6
AVM 45-5	25.0	18.5	991	1541	318	245	350	211.6
AVM 45-6-2	30.0	22.0	1071	1651	358	265	350	258.1
AVM 45-6	30.0	22.0	1071	1651	358	265	350	258.1
AVM 45-7-2	40.0	30.0	1151	1811	420	295	400	326.4
AVM 45-7	40.0	30.0	1151	1811	420	295	400	326.5
AVM 45-8-2	40.0	30.0	1231	1891	420	295	400	330.2
AVM 45-8	40.0	30.0	1231	1891	420	295	400	331.3
AVM 45-9-2	40.0	30.0	1311	1971	420	295	400	334.0
AVM 45-9	50.0	37.0	1311	1971	420	295	400	347.0
AVM 45-10-2	50.0	37.0	1391	2051	420	295	400	350.7
AVM 45-10	50.0	37.0	1391	2051	420	295	400	350.7
AVM 45-11-2	60.0	45.0	1471	2161	470	325	450	412.5
AVM 45-11	60.0	45.0	1471	2161	470	325	450	412.5
AVM 45-12-2	60.0	45.0	1551	2241	470	325	450	416.2
AVM 45-12	60.0	45.0	1551	2241	470	325	450	416.2
AVM 45-13-2	60.0	45.0	1631	2321	470	325	450	419.9

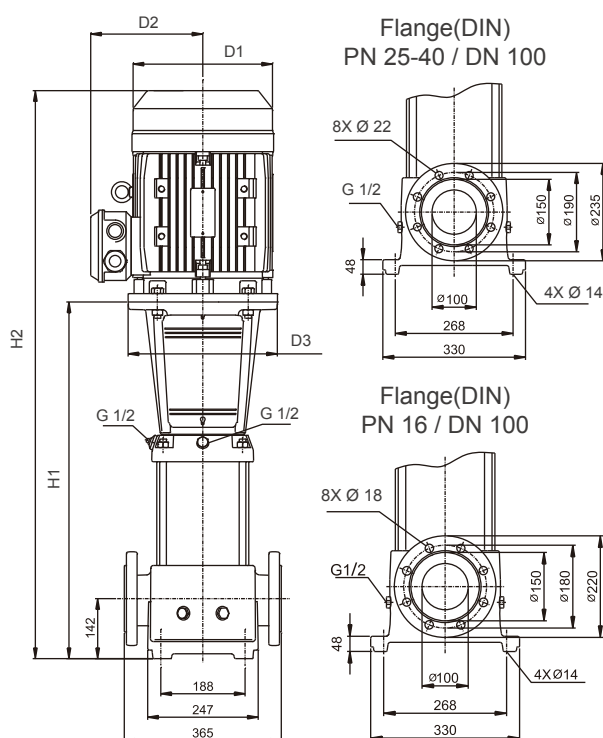
AVMI,AVMN 45

Model	Motor [P2]		AVMI, AVMN					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	
			H1	H2				DIN flange
AVMI,AVMN 45-1-1	4.0	3.0	559	875	197	147	280	82.9
AVMI,AVMN 45-1	5.5	4.0	559	885	220	161	280	86.3
AVMI,AVMN 45-2-2	7.5	5.5	639	1001	235	197	300	109.5
AVMI,AVMN 45-2	10.0	7.5	639	1037	235	197	300	115.8
AVMI,AVMN 45-3-2	15.0	11.0	829	1334	318	245	350	160.2
AVMI,AVMN 45-3	15.0	11.0	829	1334	318	245	350	160.2
AVMI,AVMN 45-4-2	20.0	15.0	909	1419	318	245	350	174.1
AVMI,AVMN 45-4	20.0	15.0	909	1419	318	245	350	174.1
AVMI,AVMN 45-5-2	25.0	18.5	989	1539	318	245	350	202.8
AVMI,AVMN 45-5	25.0	18.5	989	1539	318	245	350	202.8
AVMI,AVMN 45-6-2	30.0	22.0	1069	1649	358	265	350	249.3
AVMI,AVMN 45-6	30.0	22.0	1069	1649	358	265	350	249.3
AVMI,AVMN 45-7-2	40.0	30.0	1149	1809	420	295	400	317.7
AVMI,AVMN 45-7	40.0	30.0	1149	1809	420	295	400	317.7
AVMI,AVMN 45-8-2	40.0	30.0	1229	1889	420	295	400	321.4
AVMI,AVMN 45-8	40.0	30.0	1229	1889	420	295	400	321.5
AVMI,AVMN 45-9-2	40.0	30.0	1309	1969	420	295	400	325.2
AVMI,AVMN 45-9	50.0	37.0	1309	1969	420	295	400	338.2
AVMI,AVMN 45-10-2	50.0	37.0	1389	2049	420	295	400	341.9
AVMI,AVMN 45-10	50.0	37.0	1389	2049	420	295	400	341.9
AVMI,AVMN 45-11-2	60.0	45.0	1469	2159	470	325	450	403.7
AVMI,AVMN 45-11	60.0	45.0	1469	2159	470	325	450	403.7
AVMI,AVMN 45-12-2	60.0	45.0	1549	2239	470	325	450	407.4
AVMI,AVMN 45-12	60.0	45.0	1549	2239	470	325	450	407.4
AVMI,AVMN 45-13-2	60.0	45.0	1629	2319	470	325	450	411.1

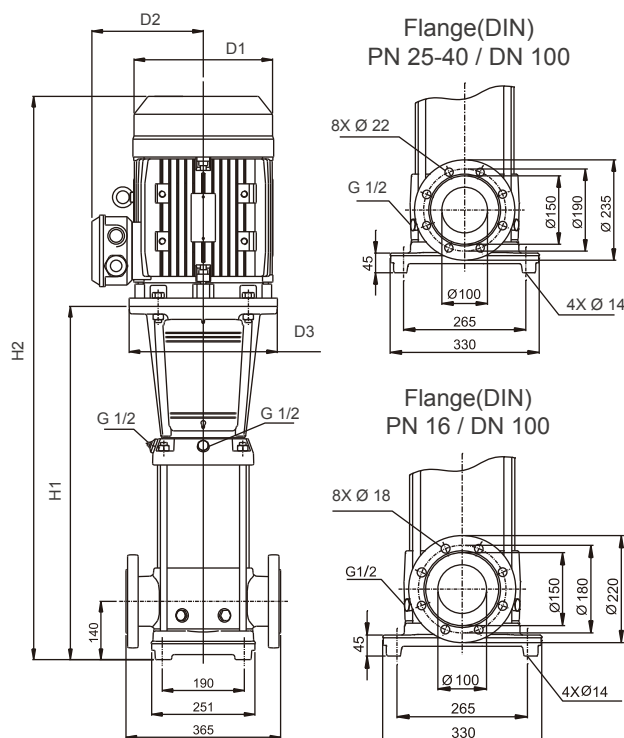
AVM, AVMI, AVMN 64



AVM 64



AVMI, AVMN 64



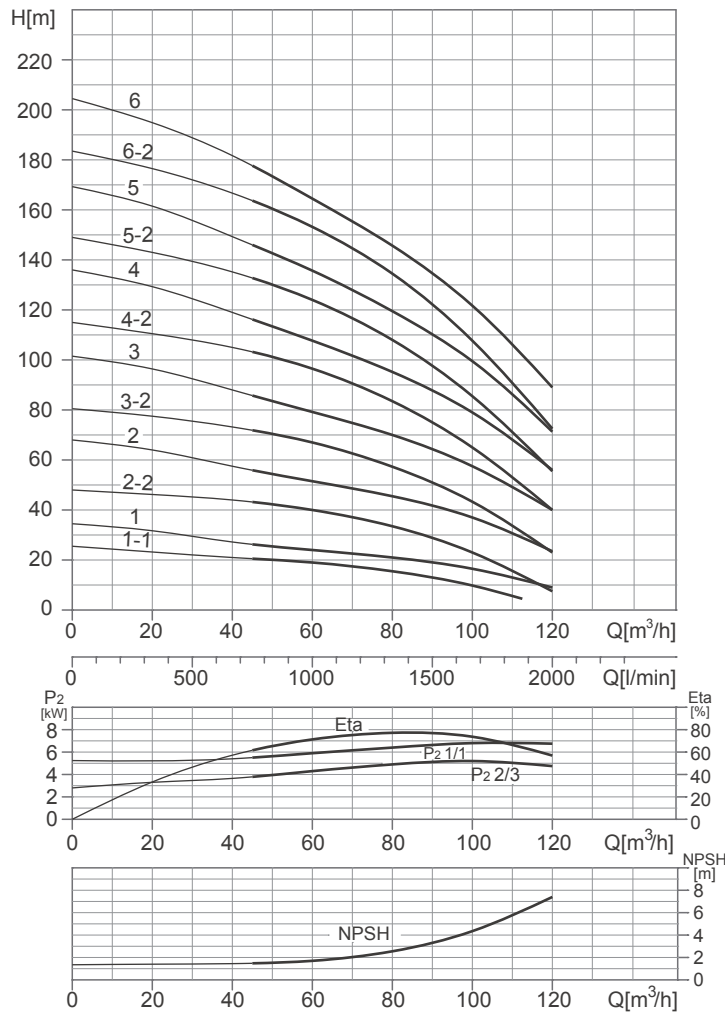
AVM 64

Model	Motor [P ₂]		AVM					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	DIN flange
			H1	H2				
AVM 64-1-1	5.5	4.0	563	889	220	161	280	88.9
AVM 64-1	7.5	5.5	563	925	235	197	300	108.3
AVM 64-2-2	10.0	7.5	646	1044	235	197	300	118.7
AVM 64-2-1	15.0	11.0	756	1261	318	245	350	159.3
AVM 64-2	15.0	11.0	756	1261	318	245	350	159.3
AVM 64-3-2	20.0	15.0	838	1348	318	245	350	174.0
AVM 64-3-1	20.0	15.0	838	1348	318	245	350	174.0
AVM 64-3	25.0	18.5	838	1388	318	245	350	198.9
AVM 64-4-2	25.0	18.5	921	1471	318	245	350	202.9
AVM 64-4-1	30.0	22.0	921	1501	358	265	350	245.7
AVM 64-4	30.0	22.0	921	1501	358	265	350	245.7
AVM 64-5-2	40.0	30.0	1003	1663	420	295	400	314.3
AVM 64-5-1	40.0	30.0	1003	1663	420	295	400	314.3
AVM 64-5	40.0	30.0	1003	1663	420	295	400	314.3
AVM 64-6-2	40.0	30.0	1086	1746	420	295	400	318.2
AVM 64-6-1	50.0	37.0	1086	1746	420	295	400	331.2
AVM 64-6	50.0	37.0	1086	1746	420	295	400	331.2
AVM 64-7-2	50.0	37.0	1168	1828	420	295	400	335.3
AVM 64-7-1	50.0	37.0	1168	1828	420	295	400	335.3
AVM 64-7	60.0	45.0	1172	1862	470	325	450	393.4
AVM 64-8-2	60.0	45.0	1255	1945	470	325	450	397.5
AVM 64-8-1	60.0	45.0	1255	1945	470	325	450	397.5

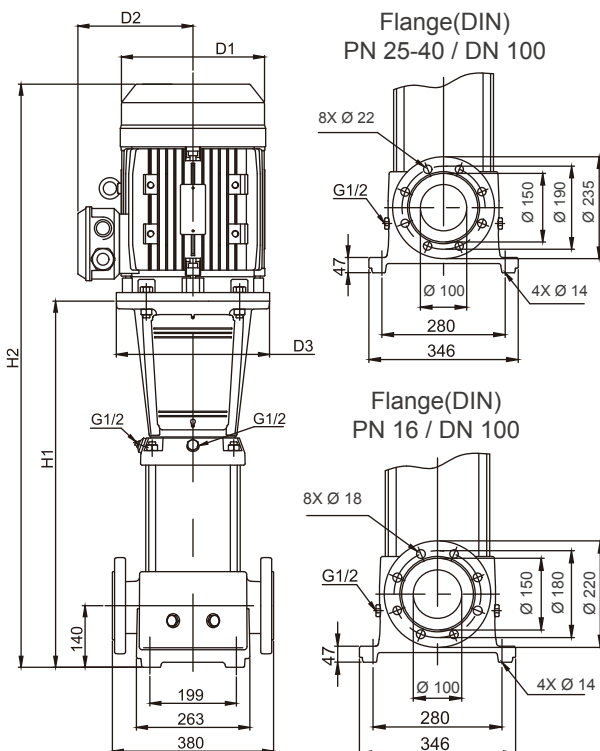
AVMI,AVMN 64

Model	Motor [P ₂]		AVMI, AVMN					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	DIN flange
			H1	H2				
AVMI,AVMN 64-1-1	5.5	4.0	563	889	220	161	280	81.8
AVMI,AVMN 64-1	7.5	5.5	563	925	235	197	300	101.3
AVMI,AVMN 64-2-2	10.0	7.5	646	1044	235	197	300	111.7
AVMI,AVMN 64-2-1	15.0	11.0	756	1261	318	245	350	152.3
AVMI,AVMN 64-2	15.0	11.0	756	1261	318	245	350	152.3
AVMI,AVMN 64-3-2	20.0	15.0	838	1348	318	245	350	166.5
AVMI,AVMN 64-3-1	20.0	15.0	838	1348	318	245	350	166.5
AVMI,AVMN 64-3	25.0	18.5	838	1388	318	245	350	191.4
AVMI,AVMN 64-4-2	25.0	18.5	921	1471	318	245	350	195.4
AVMI,AVMN 64-4-1	30.0	22.0	921	1501	358	265	350	238.1
AVMI,AVMN 64-4	30.0	22.0	921	1501	358	265	350	238.1
AVMI,AVMN 64-5-2	40.0	30.0	1003	1663	420	295	400	306.7
AVMI,AVMN 64-5-1	40.0	30.0	1003	1663	420	295	400	306.7
AVMI,AVMN 64-5	40.0	30.0	1003	1663	420	295	400	306.7
AVMI,AVMN 64-6-2	40.0	30.0	1086	1746	420	295	400	310.7
AVMI,AVMN 64-6-1	50.0	37.0	1086	1746	420	295	400	323.7
AVMI,AVMN 64-6	50.0	37.0	1086	1746	420	295	400	323.7
AVMI,AVMN 64-7-2	50.0	37.0	1168	1828	420	295	400	327.7
AVMI,AVMN 64-7-1	50.0	37.0	1168	1828	420	295	400	327.7
AVMI,AVMN 64-7	60.0	45.0	1172	1862	470	325	450	385.8
AVMI,AVMN 64-8-2	60.0	45.0	1255	1945	470	325	450	390.0
AVMI,AVMN 64-8-1	60.0	45.0	1255	1945	470	325	450	390.0

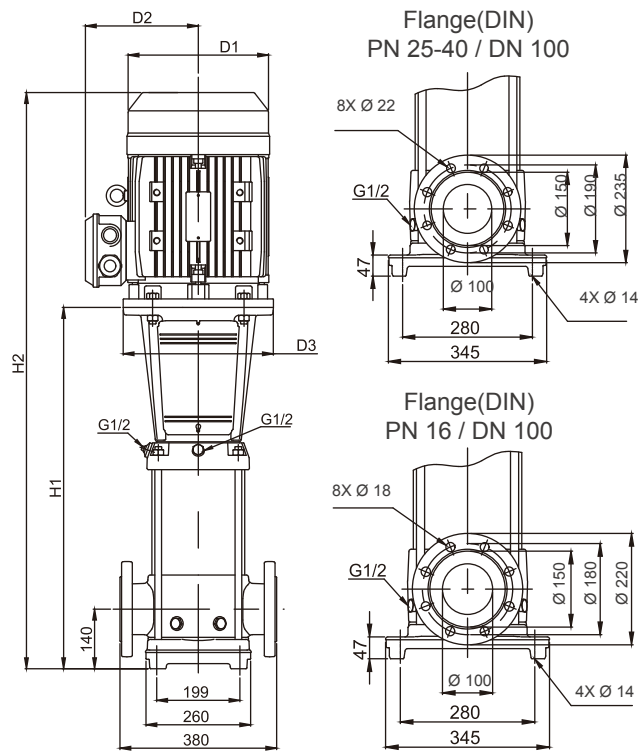
AVM, AVMI, AVMN 90



AVM 90



AVMI, AVMN 90



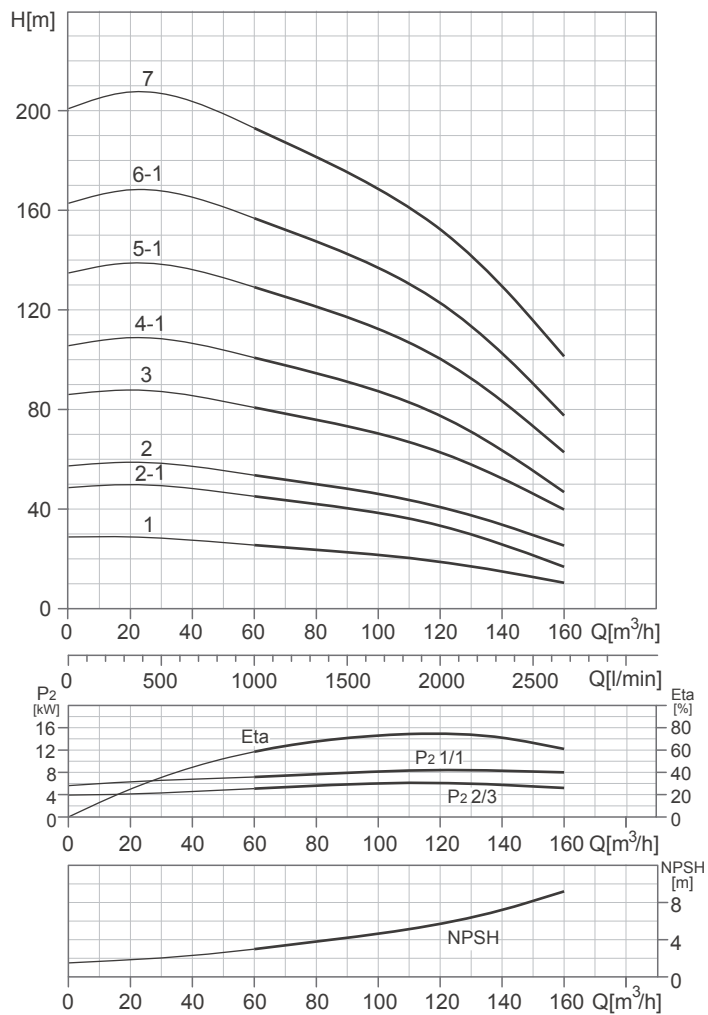
AVM 90

Model	Motor [P ₂]		AVM					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	DIN flange
			H1	H2				
AVM 90-1-1	7.5	5.5	572	934	235	197	300	122.2
AVM 90-1	10.0	7.5	572	970	235	197	300	128.5
AVM 90-2-2	15.0	11.0	774	1279	318	245	350	174.4
AVM 90-2	20.0	15.0	774	1284	318	245	350	184.5
AVM 90-3-2	25.0	18.5	866	1416	318	245	350	214.7
AVM 90-3	30.0	22.0	866	1446	358	265	350	257.5
AVM 90-4-2	40.0	30.0	958	1618	420	295	400	327.3
AVM 90-4	40.0	30.0	958	1618	420	295	400	327.3
AVM 90-5-2	50.0	37.0	1050	1710	420	295	400	346.9
AVM 90-5	50.0	37.0	1050	1710	420	295	400	346.9
AVM 90-6-2	60.0	45.0	1142	1832	470	325	450	410.2
AVM 90-6	60.0	45.0	1142	1832	470	325	450	410.3

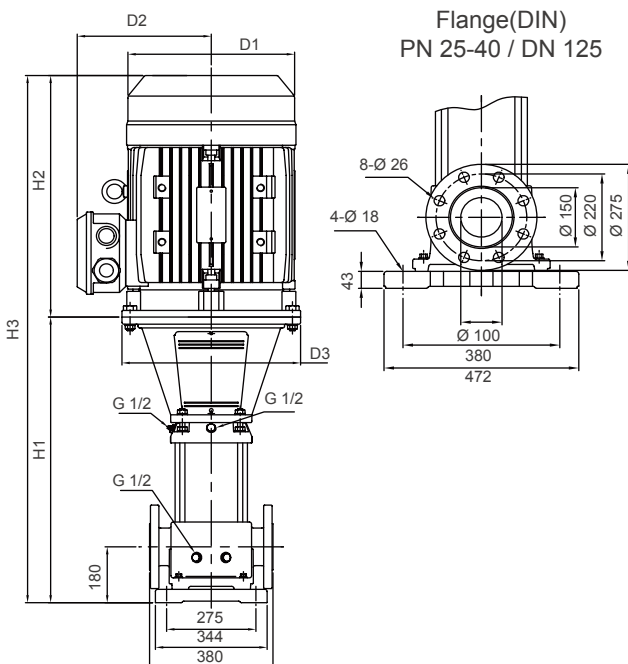
AVMI,AVMN 90

Model	Motor [P ₂]		AVMI, AVMN					
			Dimension [mm]					Net weight [kg]
	HP	kW	DIN flange		D1	D2	D3	DIN flange
			H1	H2				
AVMI,AVMN 90-1-1	7.5	5.5	576	938	235	197	300	112.1
AVMI,AVMN 90-1	10.0	7.5	576	974	235	197	300	118.4
AVMI,AVMN 90-2-2	15.0	11.0	778	1283	318	245	350	164.2
AVMI,AVMN 90-2	20.0	15.0	778	1288	318	245	350	174.3
AVMI,AVMN 90-3-2	25.0	18.5	870	1420	318	245	350	204.4
AVMI,AVMN 90-3	30.0	22.0	870	1450	358	265	350	247.2
AVMI,AVMN 90-4-2	40.0	30.0	962	1622	420	295	400	316.9
AVMI,AVMN 90-4	40.0	30.0	962	1622	420	295	400	316.9
AVMI,AVMN 90-5-2	50.0	37.0	1054	1714	420	295	400	336.9
AVMI,AVMN 90-5	50.0	37.0	1054	1714	420	295	400	337.0
AVMI,AVMN 90-6-2	60.0	45.0	1146	1836	470	325	450	400.0
AVMI,AVMN 90-6	60.0	45.0	1146	1836	470	325	450	400.1

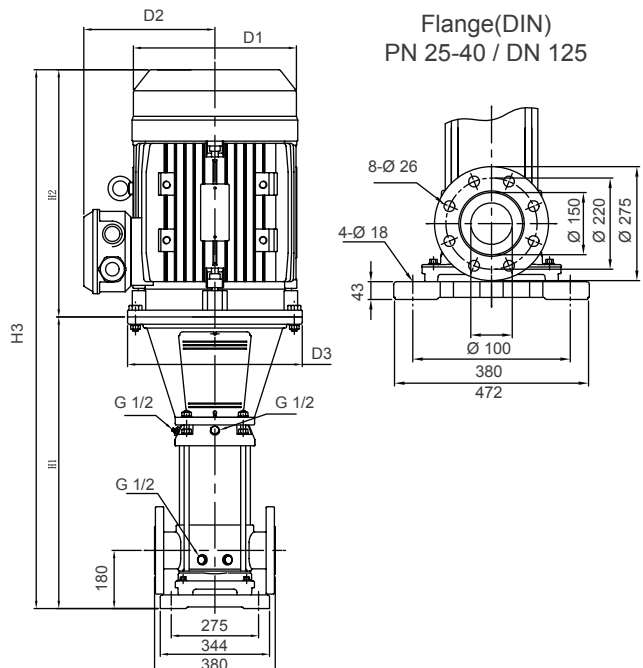
AVM, AVMI, AVMN 120



AVM 120



AVMI, AVMN 120



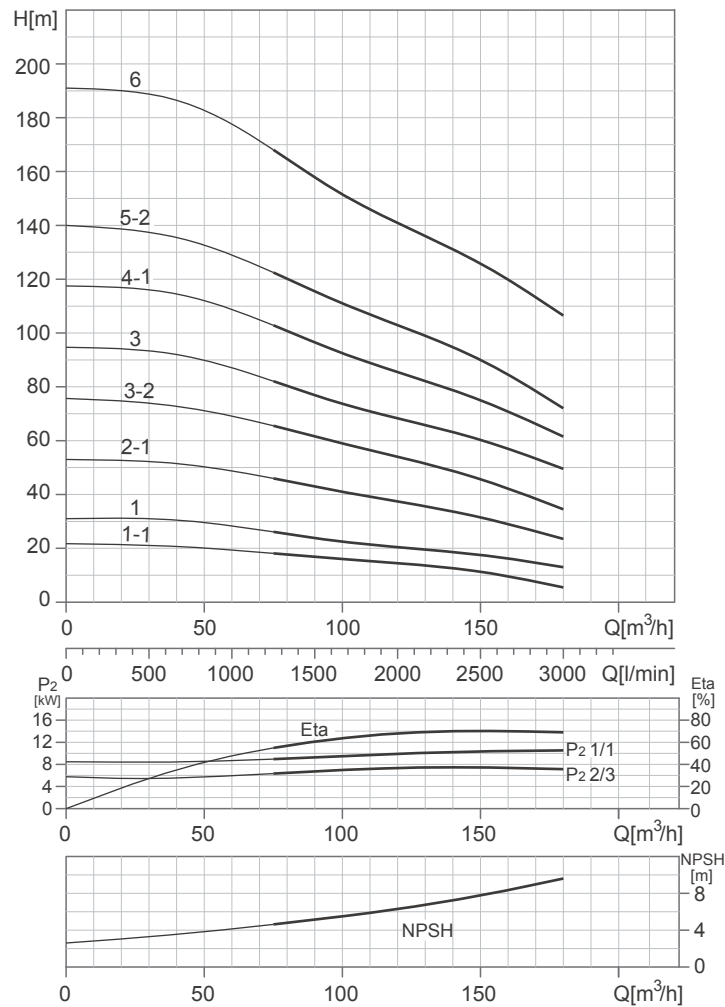
AVM 120

Model	Motor [P ₂]		AVM						
			Dimension [mm]						Net weight [kg]
	HP	kW	DIN flange			D1	D2	D3	DIN flange
			H1	H2	H3				
AVM 120-1-1	15.0	11.0	834	505	1339	318	245	350	200.1
AVM 120-2-1	25.0	18.5	990	550	1540	318	245	350	245.1
AVM 120-2	30.0	22.0	990	580	1570	358	265	350	291.8
AVM 120-3	40.0	30.0	1145	660	1805	420	295	400	362.5
AVM 120-4-1	50.0	37.0	1301	660	1961	420	295	400	385.5
AVM 120-5-1	60.0	45.0	1460	690	2150	470	325	450	453.6
AVM 120-6-1	75.0	55.0	1642	770	2412	510	355	550	578.8
AVM 120-7	100.0	75.0	1797	845	2642	580	410	550	751.4

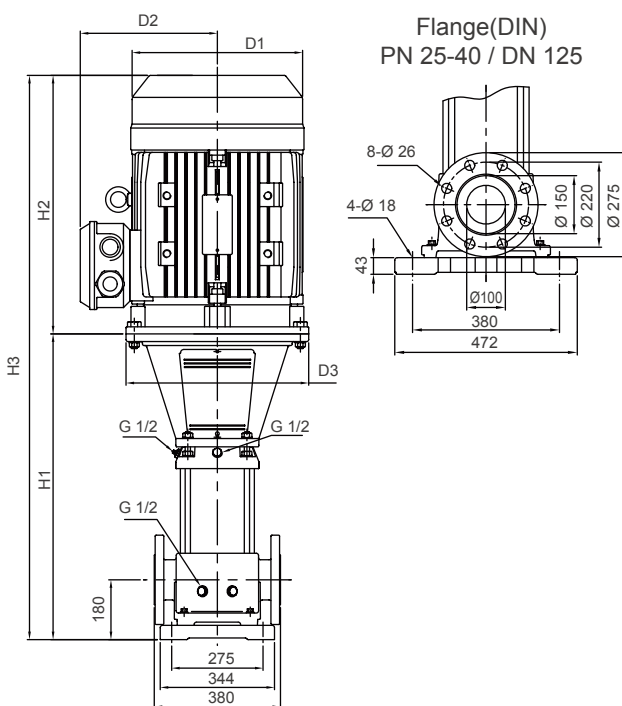
AVMI,AVMN 120

Model	Motor [P ₂]		AVMI, AVMN						
			Dimension [mm]						Net weight [kg]
	HP	kW	DIN flange			D1	D2	D3	DIN flange
			H1	H2	H3				
AVMI,AVMN 120-1-1	15.0	11.0	837	505	1342	318	245	350	184.3
AVMI,AVMN 120-2-1	25.0	18.5	993	550	1543	318	245	350	229.5
AVMI,AVMN 120-2	30.0	22.0	993	580	1573	358	265	350	276.1
AVMI,AVMN 120-3	40.0	30.0	1149	660	1809	420	295	400	346.9
AVMI,AVMN 120-4-1	50.0	37.0	1304	660	1964	420	295	400	370.1
AVMI,AVMN 120-5-1	60.0	45.0	1463	690	2153	470	325	450	438.3
AVMI,AVMN 120-6-1	75.0	55.0	1645	770	2415	510	355	550	563.8
AVMI,AVMN 120-7	100.0	75.0	1800	845	2645	580	410	550	736.5

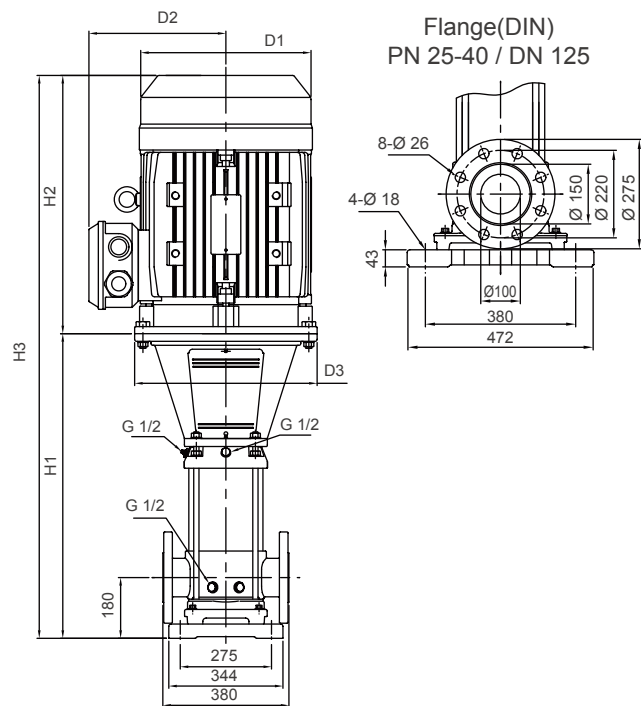
AVM, AVMI, AVMN 150



AVM 150



AVMI, AVMN 150



AVM 150

Model	Motor [P2]		AVM						
			Dimension [mm]						Net weight [kg]
	HP	kW	DIN flange			D1	D2	D3	DIN flange
			H1	H2	H3				
AVM 150-1-1	15.0	11.0	834	505	1339	318	245	350	200.0
AVM 150-1	20.0	15.0	834	510	1344	318	245	350	210.1
AVM 150-2-1	30.0	22.0	990	580	1570	358	265	350	287.8
AVM 150-3-2	40.0	30.0	1145	660	1805	420	295	400	362.3
AVM 150-3	50.0	37.0	1145	660	1805	420	295	400	375.4
AVM 150-4-1	60.0	45.0	1305	690	1995	470	325	450	443.4
AVM 150-5-2	75.0	55.0	1486	770	2256	510	355	550	568.7
AVM 150-6	100.0	75.0	1642	845	2487	580	410	550	741.0

AVMI,AVMN 150

Model	Motor [P2]		AVMI, AVMN						
			Dimension [mm]						Net weight [kg]
	HP	kW	DIN flange			D1	D2	D3	DIN flange
			H1	H2	H3				
AVMI,AVMN 150-1-1	15.0	11.0	837	505	1342	318	245	350	173.4
AVMI,AVMN 150-1	20.0	15.0	837	510	1347	318	245	350	183.5
AVMI,AVMN 150-2-1	30.0	22.0	993	580	1573	358	265	350	271.6
AVMI,AVMN 150-3-2	40.0	30.0	1148	660	1808	420	295	400	346.2
AVMI, VMN 150-3	50.0	37.0	1148	660	1808	420	295	400	359.2
AVMI,AVMN 150-4-1	60.0	45.0	1308	690	1998	470	325	450	427.4
AVMI,AVMN 150-5-2	75.0	55.0	1489	770	2259	510	355	550	552.8
AVMI,AVMN 150-6	100.0	75.0	1645	845	2490	580	410	550	725.5

Friction Loss Table

Head Loss in mWC / 100 m Pipe Due to Friction (C = 150)

C = 150 for High Density Polyethylene Pipe (HDPE)

Flow			Fr Loss & Velocity	Pipe Diameter (Inch)															
GPM	M3/H	L/sec		½"	¾"	1"	1-¼"	1-½"	2"	2-½"	3"	4"	5"	6"	8"	10"	12"		
0.5	0.1	0.0	Friction loss (m WC)	0.8	0.1														
		0.0	Velocity (m/s)		0.25	0.11	0.06												
1	0.2	0.1	Friction loss (m WC)	2.9	0.4	0.1													
			Velocity (m/s)		0.50	0.22	0.12	0.08											
2	0.5	0.1	Friction loss (m WC)	10.5	1.5	0.4	0.1												
			Velocity (m/s)		1.00	0.44	0.25	0.16											
3	0.7	0.2	Friction loss (m WC)	22.2	3.1	0.8	0.3	0.1											
			Velocity (m/s)		1.49	0.66	0.37	0.24	0.17										
4	0.9	0.3	Friction loss (m WC)	37.9	5.3	1.3	0.4	0.2											
			Velocity (m/s)		1.99	0.89	0.50	0.32	0.22										
5	1.1	0.3	Friction loss (m WC)	57.2	7.9	2.0	0.7	0.3	0.1										
		0.3	Velocity (m/s)		2.49	1.11	0.62	0.40	0.28	0.16									
10	2.3	0.6	Friction loss (m WC)		28.6	7.1	2.4	1.0	0.2	0.1									
			Velocity (m/s)			2.21	1.24	0.80	0.55	0.31	0.20								
15	3.4	0.9	Friction loss (m WC)		60.6	14.9	5.0	2.1	0.5	0.2	0.1								
			Velocity (m/s)			3.32	1.87	1.19	0.83	0.47	0.30	0.21							
20	4.5	1.3	Friction loss (m WC)			25.4	8.6	3.5	0.9	0.3	0.1								
			Velocity (m/s)				2.49	1.59	1.11	0.62	0.40	0.28							
30	6.8	1.9	Friction loss (m WC)				18.2	7.5	1.8	0.6	0.3	0.1							
			Velocity (m/s)					2.39	1.66	0.93	0.60	0.41	0.23						
40	9.1	2.5	Friction loss (m WC)				30.9	12.7	3.1	1.1	0.4	0.1							
			Velocity (m/s)					3.19	2.21	1.24	0.80	0.55	0.31						
50	11.4	3.2	Friction loss (m WC)				46.7	19.2	4.7	1.6	0.7	0.2	0.1						
			Velocity (m/s)					3.98	2.77	1.56	1.00	0.69	0.39	0.25					
60	13.6	3.8	Friction loss (m WC)				65.5	26.9	6.6	2.2	0.9	0.2	0.1						
			Velocity (m/s)					4.78	3.32	1.87	1.19	0.83	0.47	0.30					
70	15.9	4.4	Friction loss (m WC)					35.8	8.8	3.0	1.2	0.3	0.1						
			Velocity (m/s)						3.87	2.18	1.39	0.97	0.54	0.35					
80	18.2	5.0	Friction loss (m WC)					45.9	11.3	3.8	1.6	0.4	0.1	0.1					
			Velocity (m/s)						4.43	2.49	1.59	1.11	0.62	0.40	0.28				
90	20.4	5.7	Friction loss (m WC)						14.1	4.7	2.0	0.5	0.2	0.1					
			Velocity (m/s)							2.80	1.79	1.24	0.70	0.45	0.31				
100	22.7	6.3	Friction loss (m WC)						17.1	5.8	2.4	0.6	0.2	0.1					
			Velocity (m/s)							3.11	1.99	1.38	0.78	0.50	0.35				
150	34.1	9.5	Friction loss (m WC)						36.1	12.2	5.0	1.2	0.4	0.2					
			Velocity (m/s)							4.67	2.99	2.07	1.17	0.75	0.52				
200	45.4	12.6	Friction loss (m WC)							20.8	8.5	2.1	0.7	0.3	0.1				
			Velocity (m/s)								3.98	2.77	1.56	1.00	0.69	0.39			
250	56.8	15.8	Friction loss (m WC)								12.9	3.2	1.1	0.4	0.1				
			Velocity (m/s)									3.46	1.94	1.24	0.86	0.49			
300	68.1	18.9	Friction loss (m WC)								18.1	4.5	1.5	0.6	0.2	0.1			
			Velocity (m/s)									4.15	2.33	1.49	1.04	0.58	0.37		
400	90.8	25.2	Friction loss (m WC)									7.6	2.6	1.1	0.3	0.1			
			Velocity (m/s)										3.11	1.99	1.38	0.78	0.50		
500	113.6	31.5	Friction loss (m WC)									11.5	3.9	1.6	0.4	0.1	0.1		
			Velocity (m/s)										3.89	2.49	1.73	0.97	0.62	0.43	
600	136.3	37.9	Friction loss (m WC)										5.4	2.2	0.5	0.2	0.1		
			Velocity (m/s)											2.99	2.07	1.17	0.75	0.52	
700	159.0	44.2	Friction loss (m WC)										7.2	3.0	0.7	0.2	0.1		
			Velocity (m/s)											3.48	2.42	1.36	0.87	0.61	
800	181.7	50.5	Friction loss (m WC)										9.2	3.8	0.9	0.3	0.1		
			Velocity (m/s)											3.98	2.77	1.56	1.00	0.69	
900	204.4	56.8	Friction loss (m WC)											4.7	1.2	0.4	0.2		
			Velocity (m/s)												3.11	1.75	1.12	0.78	
1000	227.1	63.1	Friction loss (m WC)											5.7	1.4	0.5	0.2		
			Velocity (m/s)												3.46	1.94	1.24	0.86	
1200	272.5	75.7	Friction loss (m WC)											8.0	2.0	0.7	0.3		
			Velocity (m/s)												4.15	2.33	1.49	1.04	
1500	340.7	94.6	Friction loss (m WC)											12.1	3.0	1.0	0.4		
			Velocity (m/s)												5.19	2.92	1.87	1.30	
2000	454.2	126.2	Friction loss (m WC)													5.1	1.7	0.7	
			Velocity (m/s)														3.89	2.49	1.73
3000	681.4	189.3	Friction loss (m WC)														3.6	1.5	
			Velocity (m/s)															3.73	2.59

Notes:

1. Values shown above are used in the Hazen-Williams Equation for flow in pipes. Feet of head loss values shown in the tables were developed using the Hazen-Williams equation.

2. Feet of head loss values are subject to the following conditions:

- a) Pipes carrying clear water at approximately 60° F (15.6° C).
- b) Pipes are flowing full.
- c) Velocities of water are generally less than 3 m/sec.

Note: HDPE is commonly sized by outside diameter. If in doubt, use the next smaller pipe size.

