

PVM/PVMI/PVMX

60 Hz

A LEADER IN WATER TECHNOLOGY

The Pentair Water Group is one of the world's leading companies in the planning and manufacture of innovative products and systems suitable in any situation requiring the treatment, transportation and storage of water. The activity and success of the Group is based on values such as constant improvement, the continuous development of new products, high-performance, competence, business ethics and market leadership. Pentair's employees share personal values such as accountability, deep respect for people and the environment and a candid and practical work style. Strong customer relationships and high quality standards allow Pentair Water to rank amongst the leading producers of technology and instruments for water treatment.



SAFE, CLEAN WATER

Vertical and horizontal centrifugal pumps; submersible pumps for domestic, commercial, agricultural and industrial use; pumps for the drainage of clear and wastewaters; pressure booster units and fire-fighting systems.



FILTRATION

Industrial, residential and commercial filtration systems; filter cartridges, components for the filtration of drinking water, pumps for mobile homes and boats and pumps and accessories for applications in industry and the catering service.

SAFE, CLEAN WATER

Providing clean, safe water to an ever-growing portion of the population is the Mission of Pentair Water: a valid organization is engaged to serve our customers in an efficient manner through production plants located in every corner of the world and specialized sales and marketing networks.



WATER TREATMENT

Residential, commercial and industrial water conditioning control valves; fibre-glass wound expansion tanks and vessels; water storage tanks.



POOL AND SPA

A complete range of pool/spa equipment and accessories: filters, pumps, heating and lighting systems and cleaning accessories; dosing and control systems and products and accessories for fountains and ponds.

WATER ENERGY WE PUT ENERGY INTO YOUR WATER

The Sta-Rite brand exists since 1934 and is sold in over 100 countries worldwide. In Europe, Pentair already produces a wide range of Sta-Rite swimming pool pumps and cleaners for its pool division, which have gained a reputation for quality and durability. The new European Sta-Rite line for residential water supply and water disposal will be manufactured in Italy/ Pisa.



FIRE-FIGHTING SYSTEMS AND PRESSURIZATION SYSTEMS

Vertical and horizontal centrifugal pumps. Complete systems for the transfer and pressurization of water. Fire-fighting systems.



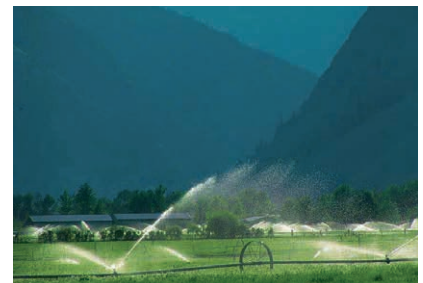
ELECTRIC PUMPS FOR RESIDENTIAL USE

Submersible pumps, self-priming pumps, multistage centrifugal pumps and compacting pumping systems for domestic water supply, irrigation and the re-utilization of harvested rainwater.



ELECTRIC PUMPS FOR DRAINAGE

Pumps for the transfer of clear, dirty and wastewaters and sewage. Pumps for numerous applications (water in basins, tanks, pumping stations etc.)



ELECTRIC PUMPS FOR OPEN AND DRILLED WELLS

Submersible pumps for irrigation and pumping underground waters.

THE PISA PLANT BECOMES 100% GREEN.



Thanks to the development of a sophisticated photovoltaic system on the rooftop of the building, the Pentair Water plant in Pisa has become the first plant to produce **100% of the energy needed for its production activities.**

4100 solar panels that generate up to **1,280,000 kWh** each year have been installed on a surface area of 11,000 m².

One of the greatest advantages includes a reduction of CO₂ emissions equal to **678 ton/year**. Our customers can rest assured that products developed in the Pentair Water plant in Pisa are

completely made using renewable energy.

The remarkable results achieved by the installation of the solar panels can be seen in real time on the various screens located throughout the plant.

All activities performed at the plant in Pisa are continuously improved, aiming towards maximum energy savings and minimum environmental impact. In light of the initiatives undertaken and future plans, we can certainly say that Pentair Water is a leader in the

management of its business, characterized by:

- Maximum environmental friendliness
- Maximum energy savings
- Improved safety conditions for workers
- Maximum respect for health

PVM/PVMI/PVMX VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

High hydraulic efficiency, Motor designed to EN standards

The PVM, PVMI and PVMX 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.

PVM, PVMI and PVMX pumps have different pump sizes and various numbers of stages to provide the flow and the pressure required.

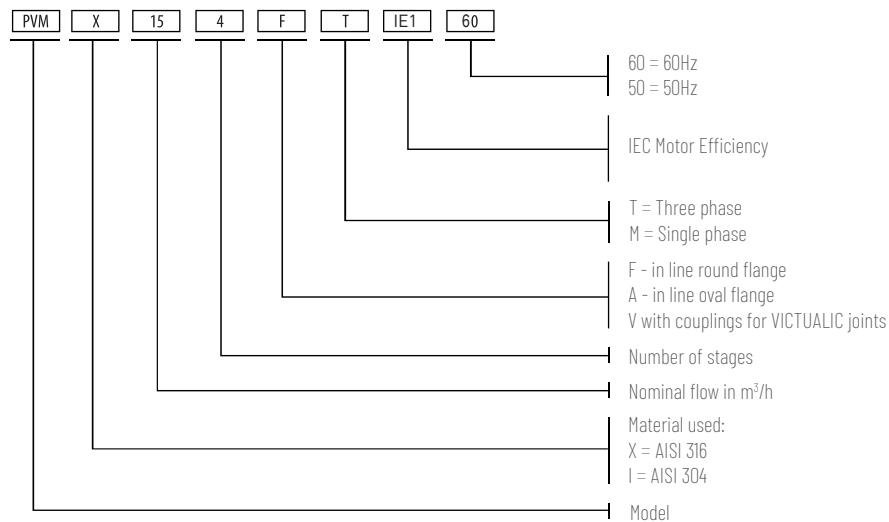


APPLICATIONS

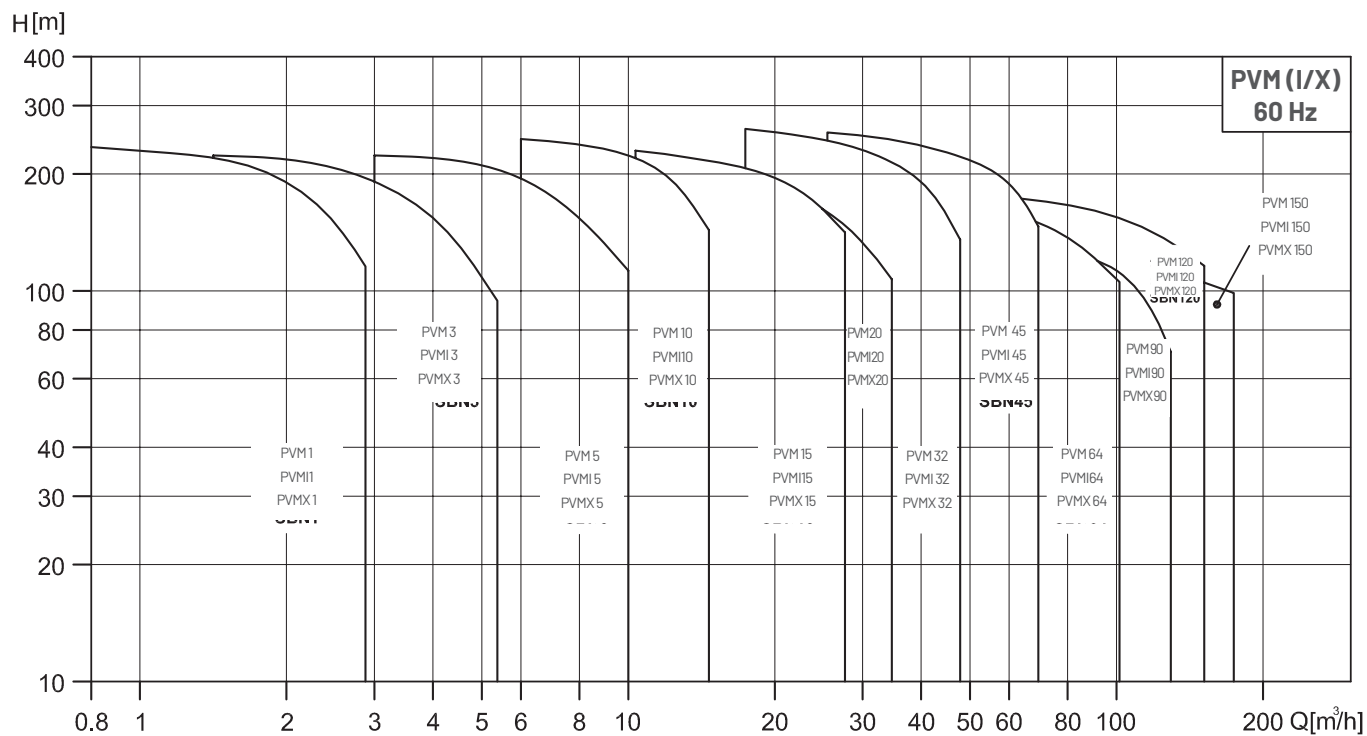
- Water supply
- Pressure boosting systems
- Water treatment/filtration
- Irrigation
- High pressure washes
- Liquid transfer
- Firefighting systems
- Boiler feed



IDENTIFICATION CODE



PERFORMANCE RANGE



PVM/PVMI/PVMX VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PVM MOTOR AND PRODUCT DATA



MOTOR

- Asynchronous electric motor with enclosed stator and external ventilation
- Main dimensions are in accordance with IEC standards
- Class F insulation
- Level of protection IP55
- Maximum environmental temperature 50°C
- Speed of rotation 3600 rpm

MOTOR TYPE -2 POLES				NOMINAL CURRENT IN [A]			
[HP]	[KW]	Flange	Frame	3~220 V	3~255 V	3~380 V	3~440 V
0,5	0,37	B14	71 A	1,7	1,7	1	1
0,75	0,55		71 B	2,6	2,4	1,5	1,4
1	0,75		80 A	3,1	2,9	1,8	1,7
1,5	1,1		90 B	4,8	4,5	2,8	2,6
				3~220 V	3~277 V	3~380 V	3~480 V
2	1,5		90L	5,7	5,5	3,3	3,2
3	2,2		90L	8,6	8,8	5	5,1
4	3		100L	6,9	10,4	6,3	6
5,5	4		112M	14,4	13,2	8,3	7,6
7,5	5,5		132S	19,2	18,2	11,1	10,5
10	7,5		132S	26,3	27,8	15,2	16,1
					3~220 V	3~380 V	3~440 V
15	11		160M		37,5	22,7	18,8
20	15		160M		50	28,9	25
25	18,5		160L		60,3	34,9	30,1
30	22		180M		71,1	41,5	35,8
40	30		200L		97	56,1	48,5
50	37		200L		118	68,3	59
60	45		225 M		143	82,8	71,5
75	55		250M		174	100	86,8
100	75		280S		235	136	118

*The Nominal Current values indicated refer to a standard motor configuration.
For detailed information, please contact your country's Pentair office.

PRODUCT DATA

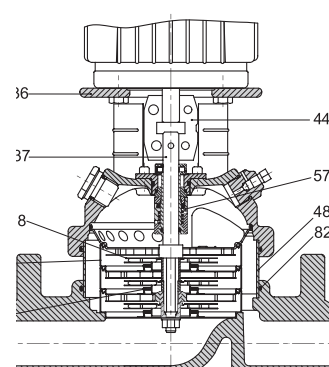
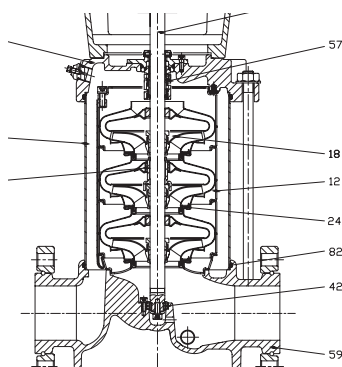
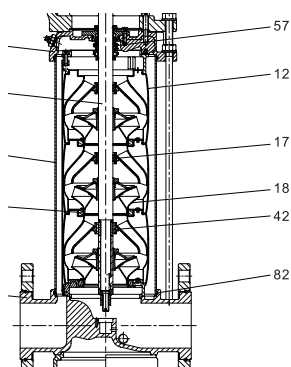
60Hz	PVM, PVMI, PVMX					
	1	3	5	10	15	20
Nominal Flow (m ³ /h)	1.2	3.6	6	12	18	24
Flow Range (m ³ /h)	0.8-2.9	1.5-5.4	3-10	6-15.5	10.5-28	12.5-35
Max. Pressure (bar)	23.5	23.3	23	24.5	23.5	20.5
fluid Temperature	-15°C to + 120°C					
Motor Power (kW)	0.37-3	0.37-4	0.55-7.5	0.75-11	1.5-18.5	2.2-18.5
Version						
"PVM: Cast iron and stainless steel EN 1.4301/AISI 304"	•	•	•	•	•	•
"PVMI: Stainless steel EN 1.4301/AISI 304"	•	•	•	•	•	•
"PVMX: Stainless steel EN 1.4401/AISI 316"	•	•	•	•	•	•
Motor						
Main connection 3~ (V/Hz) (Permissible voltage tolerance ± 10%)	0.37-1.1 kW 220-255/380-440 V 60 Hz 1.5-7.5 kW 220-277/380-480 V 60 Hz from 11 kW 220/380/440 V 60 Hz					
Insulation class	F					
Enclosure class	IP 55					
Ambient temperature	50°C					

PVM Pipe Connection						
Flange	DN 25/DN 32	DN 25/DN 32	DN 25/DN 32	DN 40	DN 50	DN 50
PVMI/PVMX Pipe Connection						
Flange	DN 25/DN 32	DN 25/DN 32	DN 25/DN 32	DN 40	DN 50	DN 50
Victaulic connection	R¼ DN32	R¼ DN32	R¼ DN32	R2 DN50	R2 DN50	R2 DN50
Mechanical Seals						
SiC/SiC				Standard		
Seals						
EPDM				Standard		
Viton				Optional		

PRODUCT DATA

60Hz	PVM, PVMI, PVMX					
	32	45	64	90	120	150
Nominal Flow (m3/h)	38	54	77	108	140	180
Flow Range (m3/h)	18-48	26-70	36-102	54-146	60-160	75-180
Max. Pressure (bar)	27	26	17.8	15.9	18.5	15.3
fluid Temperature	-15°C to + 120°C					
Motor Power (kW)	2.2-30	5.5-45	7.5-45	11-45	18.5-75	18.5-75
Version						
"PVM: Cast iron and stainless steel EN 1.4301/AISI 304"	•	•	•	•	•	•
"PVMI: Stainless steel EN 1.4301/AISI 304"	•	•	•	•	•	•
"PVMX: Stainless steel EN 1.4401/AISI 316"	•	•	•	•	•	•
Motor						
"Main connection 3~ (V/Hz) (Permissible voltage tolerance ± 10%)"	0.37-1.1 kW 220-255/380-440 V 60 Hz 1.5-7.5 kW 220-277/380-480 V 60 Hz from 11 kW 220/380/440 V 60 Hz					
Insulation class	F					
Enclosure class	IP 55					
Ambient temperature	50°C					
PVM Pipe Connection						
Flange	DN 65	DN 80	DN 100	DN 100	DN 125	DN 125
PVMI/PVMX Pipe Connection						
Flange	DN 65	DN 80	DN 100	DN 100	DN 125	DN 125
Victaulic connection	N/A	N/A	N/A	N/A	N/A	N/A
Mechanical Seals						
SiC/SiC	Standard					
Seals						
EPDM	Standard					
Viton	Optional					

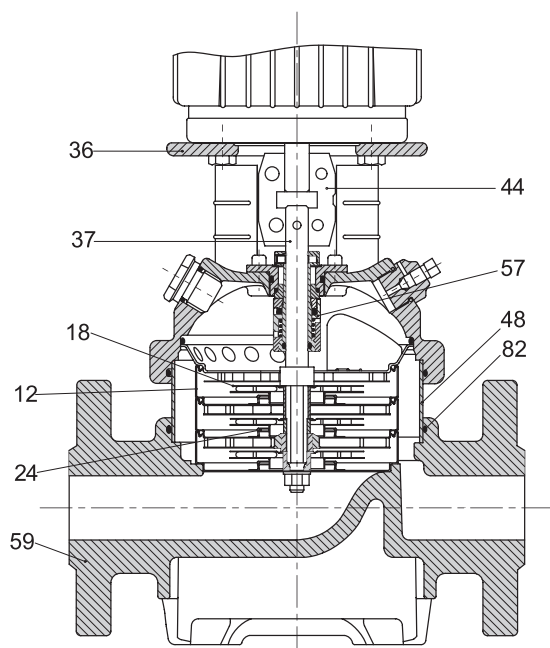
PVM PUMP CONSTRUCTION



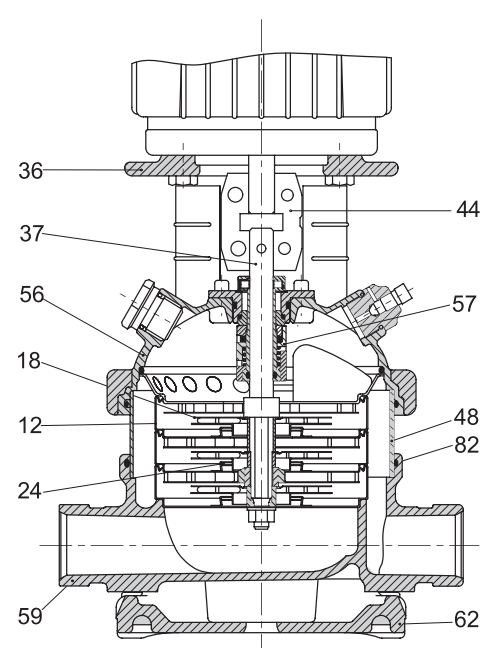
PUMP CONSTRUCTION

POS.	NAME	MATERIAL	PVM 1, 3, 5, 10, 15, 20	PVMI 1, 3, 5, 10, 15, 20	PVMX 1, 3, 5, 10, 15, 20
36	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
56	Pump head cover	Stainless Steel	N/A	1.4301 ; AISI 304	1.4401 ; AISI 316
18	Impeller	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
37	Shaft	Stainless Steel	1.4057 ; AISI 431	1.4057 ; AISI 431	1.4401 ; AISI 316
48	Outer sleeve	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
82	O-Ring for outer sleeve	EPDM	-	-	-
12	Chamber	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
24	Neck Ring	PTFE	-	-	-
59	Base	Cast Iron	EN-GJL-200 ; ASTM 25B	N/A	N/A
		Stainless Steel	N/A	1.4301 ; AISI 304	1.4401 ; AISI 316
62	Base plate	Cast Iron	N/A	EN-GJL-200 ; ASTM 25B	EN-GJL-200 ; ASTM 25B
44	Coupling	Fe-Cu-C	SINT C11 ; MPIF FC0525	SINT C11 ; MPIF FC0525	SINT C11 ; MPIF FC0525
57	Mechanical seal	Cartridge type	-	-	-

PVM - 1, 3, 5, 10, 15, 20



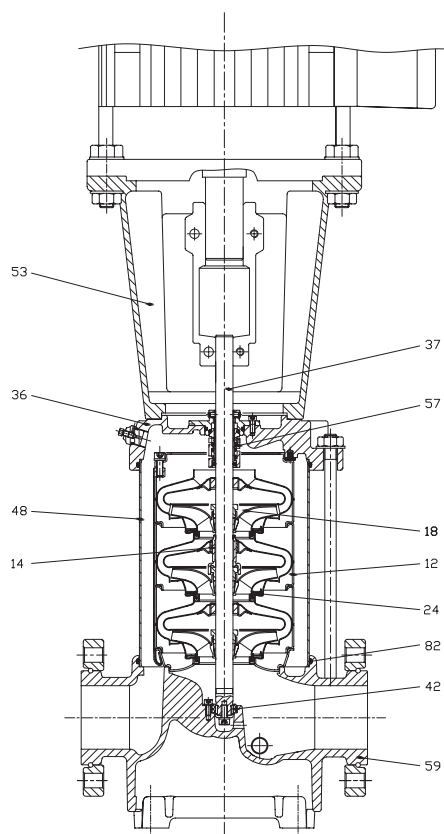
PVMI / X - 1, 3, 5, 10, 15, 20



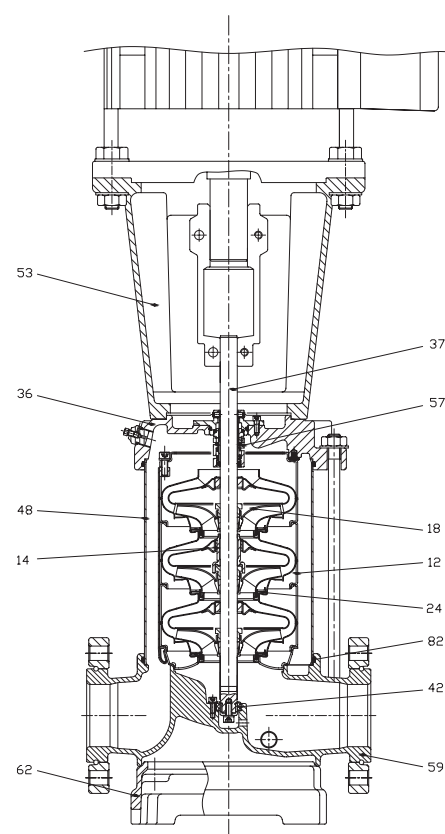
PUMP CONSTRUCTION

POS.	NAME	MATERIAL	PVM 32, 45, 64, 90	PVMI 32, 45, 64, 90	PVMX 32, 45, 64, 90
36	Pump head	Cast Iron	EN-GJL-250 ; ASTM 35B	N/A	N/A
		Stainless Steel	N/A	1.4301 ; AISI 304	1.4401 ; AISI 316
53	Motor bracket	Stainless Steel	EN-GJL-250 ; ASTM 35B	EN-GJL-250 ; ASTM 35B	EN-GJL-250 ; ASTM 35B
18	Impeller	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
37	Shaft	Stainless Steel	1.4057 ; AISI 431	1.4057 ; AISI 431	1.4401 ; AISI 316
48	Outer sleeve	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
82	O-Ring for outer sleeve	EPDM	-	-	-
12	Chamber	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
24	Neck Ring	Carbon fiber + POB + PTFE	-	-	-
59	Base	Cast Iron	EN-GJL-250 ; ASTM 35B	N/A	N/A
		Stainless Steel	N/A	1.4301 ; AISI 304	1.4401 ; AISI 316
62	Base plate	Cast Iron	N/A	EN-GJL-250 ; ASTM 35B	EN-GJL-250 ; ASTM 35B
57	Mechanical seal	Cartridge type	-	-	-
14	Bearing ring	-	Bronze	POB + Grphite + PTFE	-
42	Bottom Bearing ring	Tungsten carbide / Tungsten carbide	-	-	-

PVM - 32, 45, 64, 90

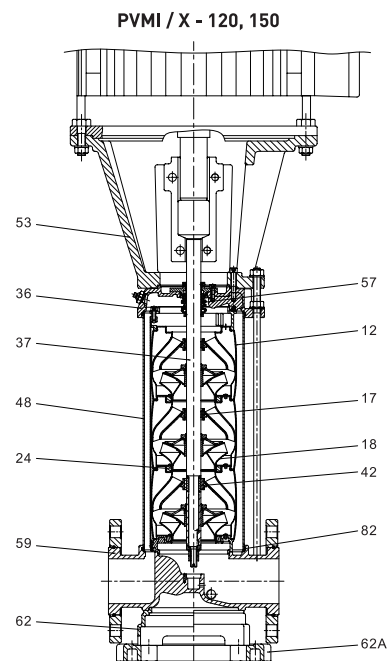
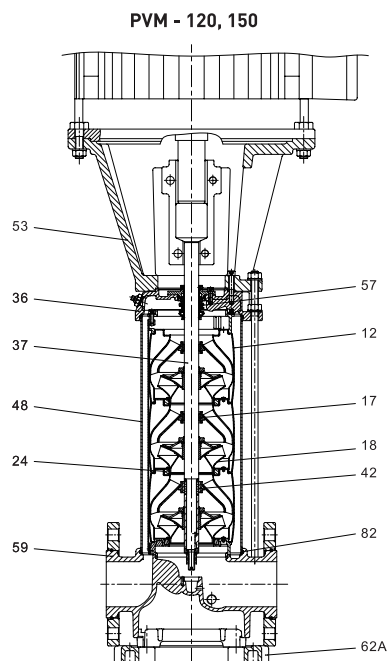


PVMI / X - 32, 45, 64, 90



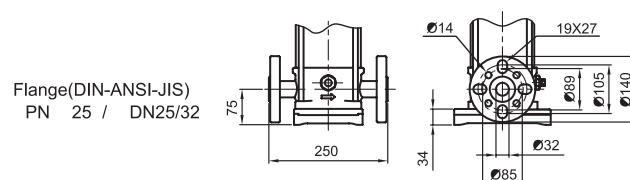
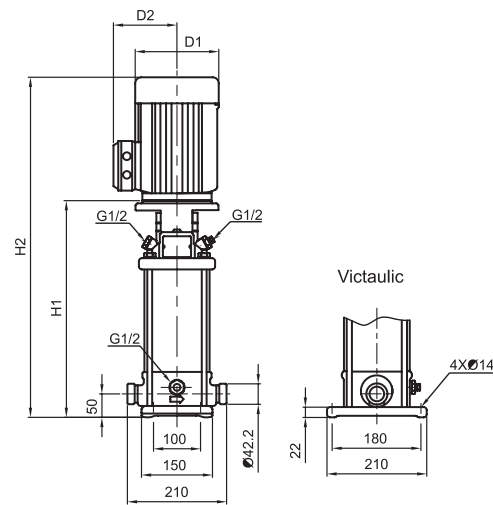
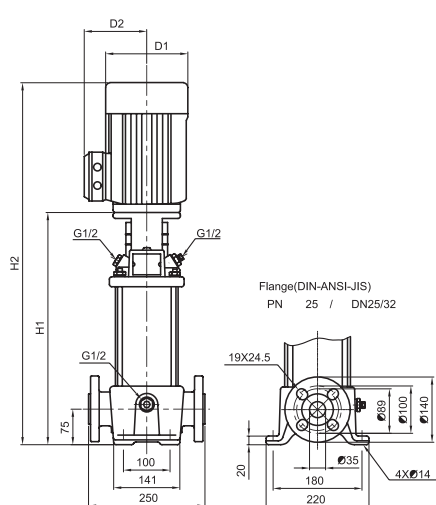
PUMP CONSTRUCTION

POS.	NAME	MATERIAL	PVM 120, 150	PVMI 120, 150	PVMX 120, 150
36	Pump Head	Cast Iron	EN-GJL-250 ; ASTM 35B	N/A	N/A
		Stainless Steel	N/A	1.4301 ; AISI 304	1.4401 ; AISI 316
53	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-GJS-450-10 ; ASTM 65-45-12	EN-GJS-450-10 ; ASTM 65-45-12	EN-GJS-450-10 ; ASTM 65-45-12
17	Bearing ring	PTFE	-	-	-
18	Impeller	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
37	Shaft	Stainless Steel	1.4057 ; AISI 431	1.4057 ; AISI 431	1.4401 ; AISI 316
48	Outer sleeve	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
82	O-Ring for outer sleeve	EPDM	-	-	-
12	Chamber	Stainless Steel	1.4301 ; AISI 304	1.4301 ; AISI 304	1.4401 ; AISI 316
24	Neck Ring	PTFE	-	-	-
59	Base	Cast Iron	EN-GJL-250 ; ASTM 35B	N/A	N/A
		Stainless Steel	N/A	1.4301 ; AISI 304	1.4401 ; AISI 316
62	Base plate	Cast Iron	N/A	EN-GJS-450-10 ; ASTM 65-45-12	-
62A	Base plate	Cast Iron	N/A	EN-GJS-450-10 ; ASTM 65-45-12	-
57	Mechanical seal	Cartridge type	EN-GJS-450-10 ; ASTM 65-45-12	-	-
14	Bearing ring	-	Bronze	POB + Grphite + PTFE	-
42	Bottom Bearing ring	Tungsten carbide / Tungsten carbide	-	-	-

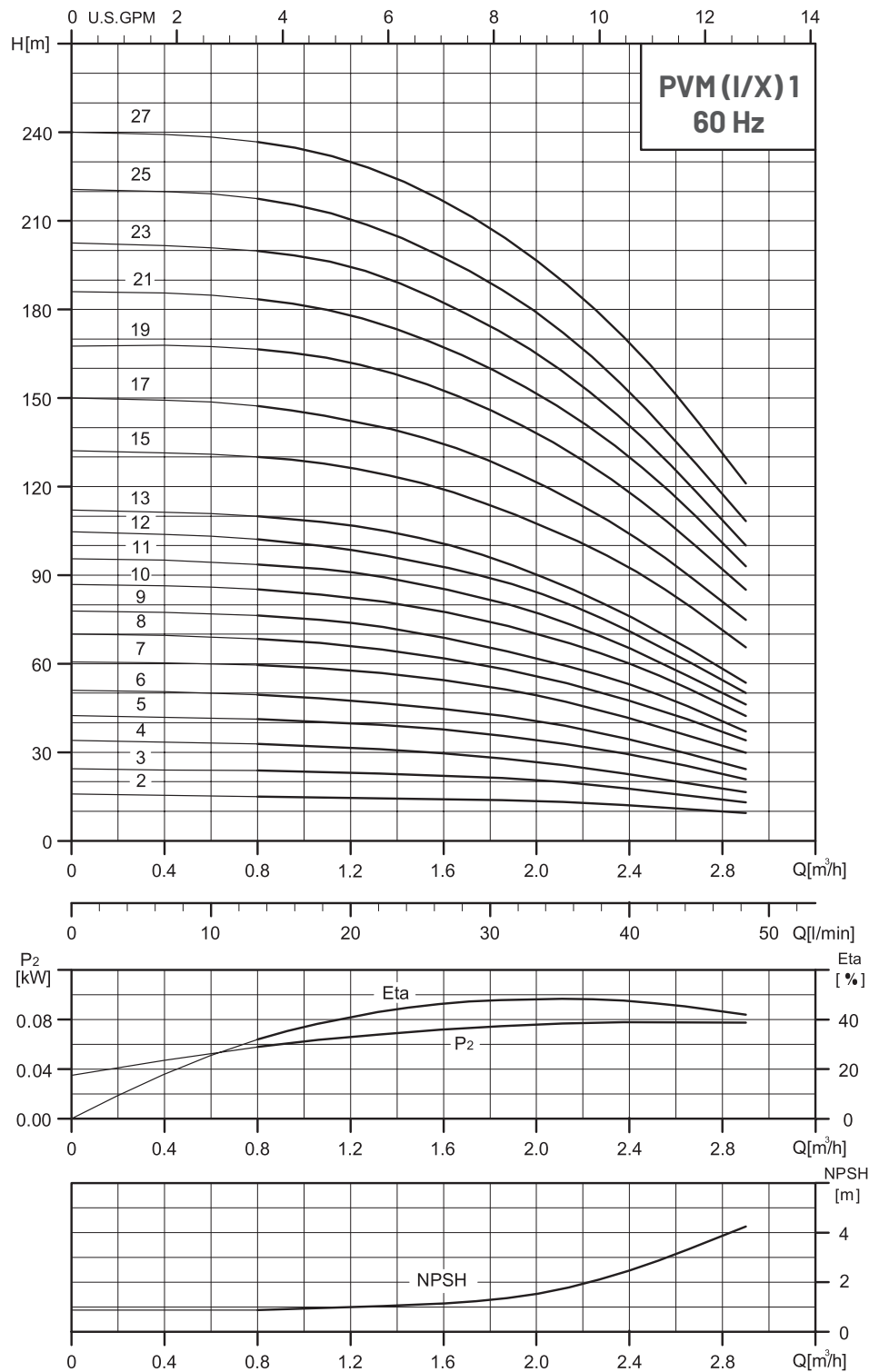


PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM					PVMI - PVMX							
			DIMENSION [mm]				Net Weight [kg]	DIMENSION [mm]						Net Weight [kg]	
	P ₂		DIN Flange		D1	D2	DIN Flange	Victaulic		DIN Flange		D1	D2	Victaulic	DIN Flange
	[HP]	[KW]	H1	H2				H1	H2	H1	H2				
PVM 1-2	0,5	0,37	279	474	141	115	23,4	257	452	282	477	141	115	19,3	20,2
PVM 1-3	0,5	0,37	279	474	141	115	23,4	257	452	282	477	141	115	19,3	20,3
PVM 1-4	0,5	0,37	297	474	141	115	23,8	275	470	300	495	141	115	19,7	20,6
PVM 1-5	0,75	0,55	315	510	141	115	24,7	293	488	318	513	141	115	20,6	21,5
PVM 1-6	0,75	0,55	333	528	141	115	25,0	311	506	336	531	141	115	20,9	21,9
PVM 1-7	1	0,75	357	592	141	115	27,5	335	570	360	595	141	115	23,3	24,2
PVM 1-8	1	0,75	375	610	141	115	27,9	353	588	378	613	141	115	23,7	24,6
PVM 1-9	1	0,75	393	628	141	115	28,3	371	606	396	631	141	115	24,0	25,0
PVM 1-10	1,5	1,1	411	646	141	115	29,8	389	624	414	649	141	115	25,5	26,5
PVM 1-11	1,5	1,1	429	664	141	115	30,2	407	642	432	667	141	115	25,9	26,9
PVM 1-12	1,5	1,1	447	682	141	115	30,5	425	660	450	685	141	115	26,3	27,2
PVM 1-13	1,5	1,1	465	700	141	115	30,9	443	678	468	703	141	115	26,7	27,6
PVM 1-15	2	1,5	517	808	177	141	40,3	495	786	520	811	177	141	36,1	37,1
PVM 1-17	2	1,5	553	844	177	141	41,0	531	822	556	847	177	141	36,9	37,8
PVM 1-19	3	2,2	589	880	177	141	44,6	567	858	592	883	177	141	40,4	41,3
PVM 1-21	3	2,2	625	916	177	141	45,3	603	894	628	919	177	141	41,2	42,1
PVM 1-23	3	2,2	661	952	177	141	46,1	639	930	664	955	177	141	41,9	42,9
PVM 1-25	3	2,2	697	988	177	141	46,8	675	966	700	991	177	141	42,6	43,6
PVM 1-27	4	3	737	1053	197	147	55,1	716	1032	741	1057	197	147	50,5	51,5



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

PVM(I/X)1

3500 rpm

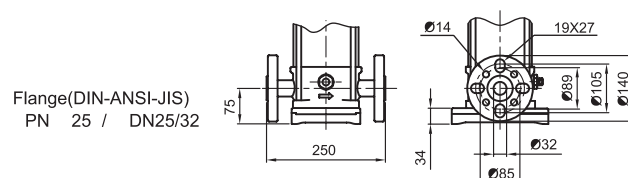
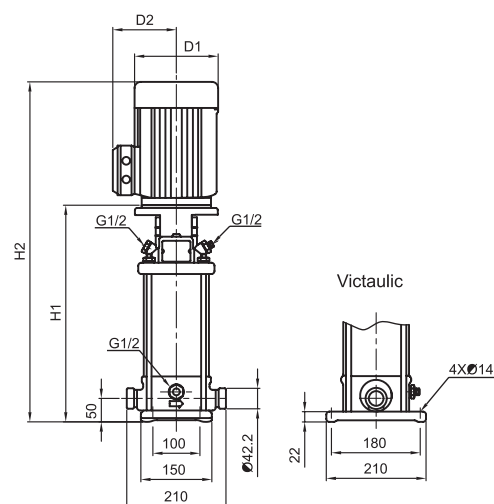
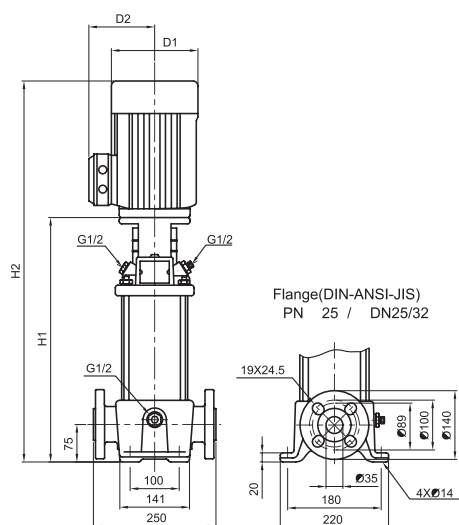
60 Hz

ISO 9906 - Annex A

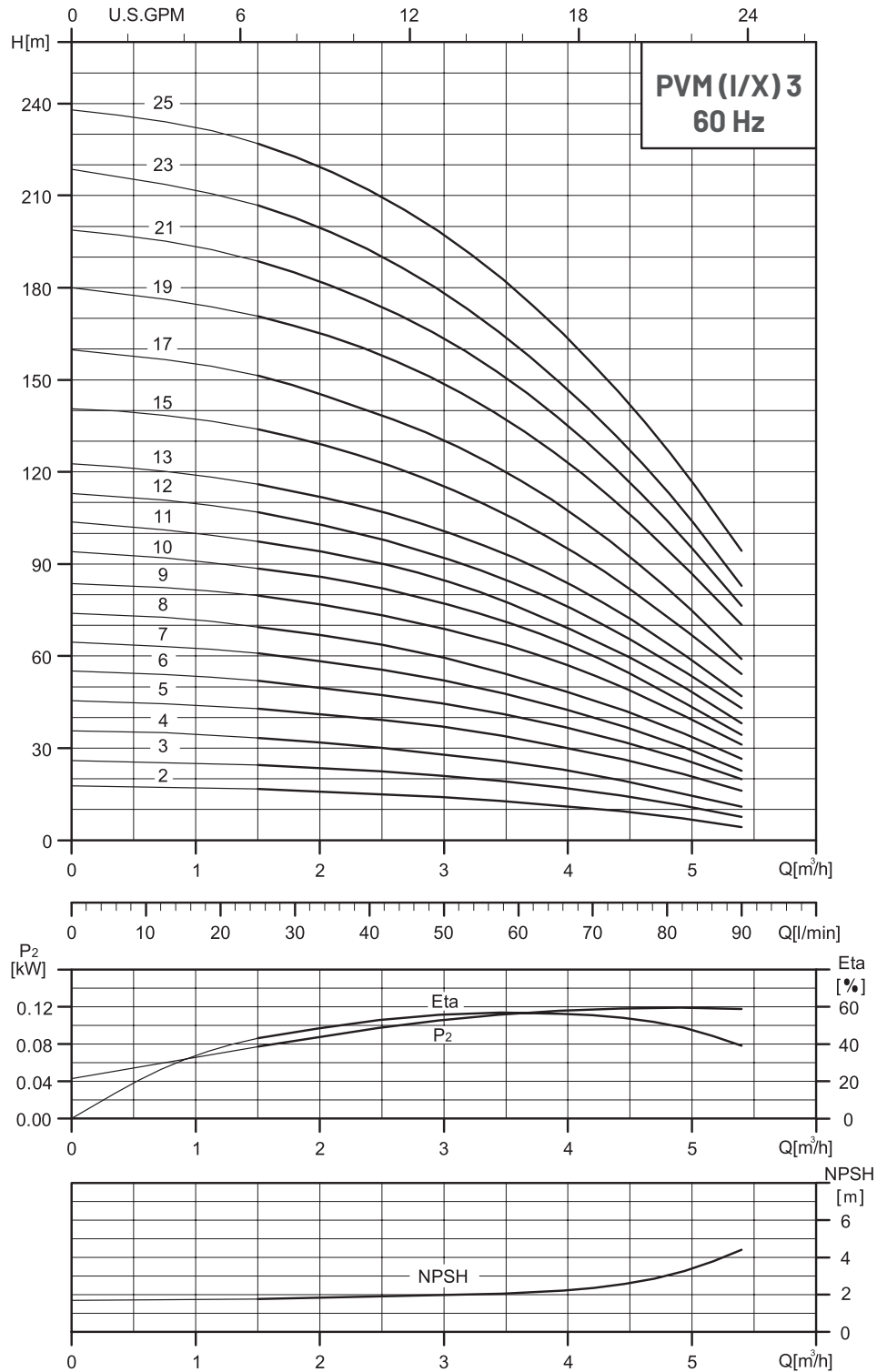
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM					PVMI - PVMX							
			DIMENSION [mm]				Net Weight [kg]	DIMENSION [mm]						Net Weight [kg]	
	P ₂		DIN Flange		D1	D2	DIN Flange	Victaulic		DIN Flange		D1	D2	Victaulic	DIN Flange
	[HP]	[KW]	H1	H2				H1	H2	H1	H2				
PVM 3-2	0,5	0,37	279	474	141	115	23,4	257	452	282	477	141	115	19,3	20,2
PVM 3-3	0,75	0,55	279	474	141	115	23,9	257	452	282	477	141	115	19,8	20,8
PVM 3-4	0,75	0,55	297	492	141	115	24,3	275	470	300	495	141	115	20,2	21,1
PVM 3-5	1	0,75	321	556	141	115	26,8	299	534	324	559	141	115	22,6	23,5
PVM 3-6	1,5	1,1	339	574	141	115	28,3	317	552	342	577	141	115	24,1	25,0
PVM 3-7	1,5	1,1	357	592	141	115	28,7	335	570	360	595	141	115	24,4	25,4
PVM 3-8	1,5	1,1	375	610	141	115	29,0	353	588	378	613	141	115	24,8	25,7
PVM 3-9	2	1,5	409	700	177	141	38,1	387	678	412	703	177	141	33,9	34,9
PVM 3-10	2	1,5	427	718	177	141	38,5	405	696	430	721	177	141	34,3	35,2
PVM 3-11	2	1,5	445	736	177	141	38,9	423	714	448	739	177	141	34,7	35,6
PVM 3-12	3	2,2	463	754	177	141	42,0	441	732	466	757	177	141	37,9	38,8
PVM 3-13	3	2,2	481	772	177	141	42,4	459	750	484	775	177	141	38,3	39,2
PVM 3-15	3	2,2	517	808	177	141	43,1	495	786	520	811	177	141	38,9	39,9
PVM 3-17	3	2,2	553	844	177	141	43,8	531	822	556	847	177	141	39,7	40,6
PVM 3-19	4	3	593	909	197	147	52,1	572	888	597	913	197	147	47,6	48,5
PVM 3-21	4	3	629	945	197	147	52,8	608	924	633	949	197	147	48,3	49,3
PVM 3-23	4	3	665	981	197	147	53,6	644	960	669	985	197	147	49,1	50,0
PVM 3-25	5,5	4	701	1027	220	161	57,7	680	1006	705	1031	220	161	53,2	54,1



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

PVM(I/X) 3

3500 rpm

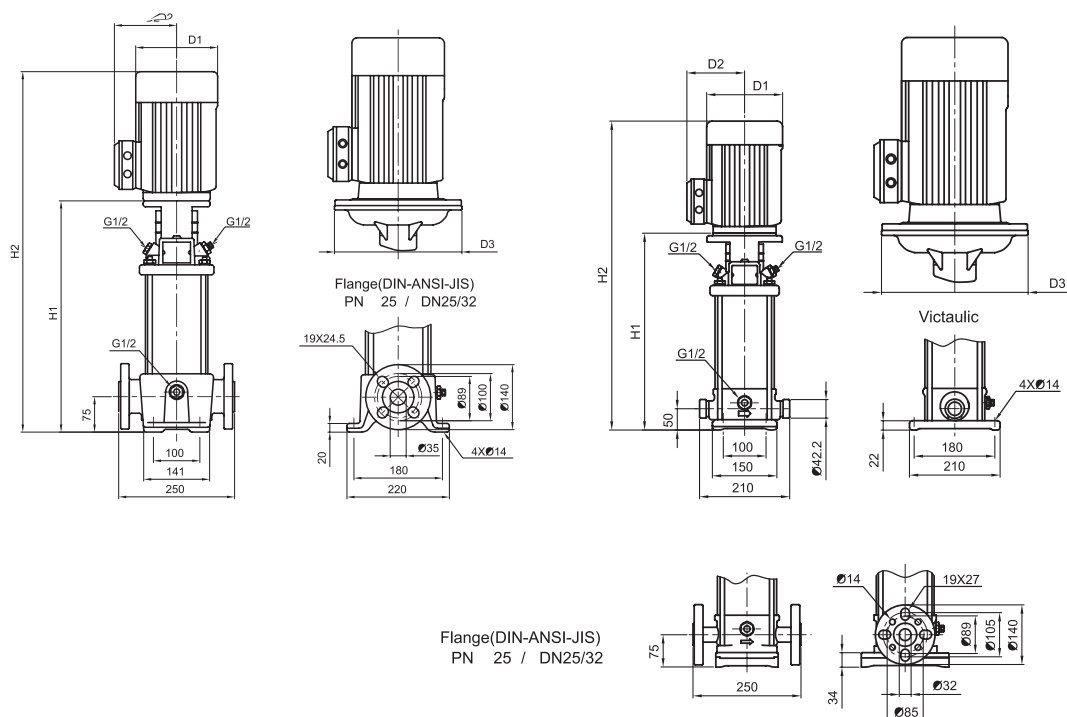
60 Hz

ISO 9906 - Annex A

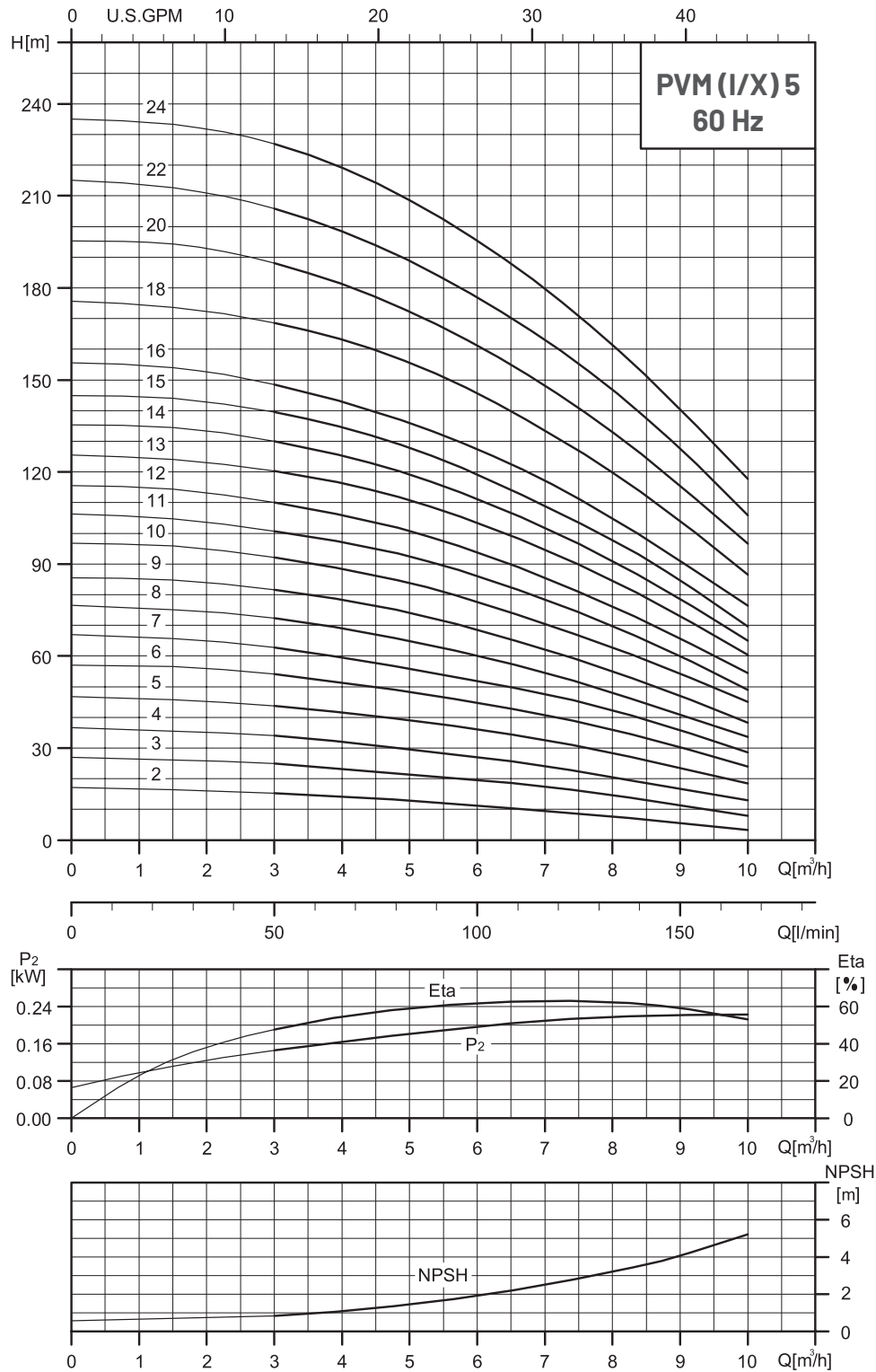
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM						PVMI - PVMX								
			DIMENSION [mm]						DIMENSION [mm]								
	P ₂		DIN Flange		D1	D2	D3	DIN Flange	Victaulic		DIN Flange		D1	D2	D3	Victaulic	DIN Flange
	[HP]	[KW]	H1	H2					H1	H2	H1	H2					
PVM 5-2	0,8	0,55	279	474	141	115	—	23,8	0,55	257	452	282	477	141	115	19,7	20,6
PVM 5-3	1,5	1,1	312	547	141	115	—	27,5	1,1	290	525	315	550	141	115	23,4	24,4
PVM 5-4	1,5	1,1	339	574	141	115	—	28,0	1,1	317	552	342	577	141	115	24,0	24,9
PVM 5-5	2	1,5	382	673	177	141	—	37,2	1,5	360	651	385	676	177	141	33,3	34,2
PVM 5-6	3	2,2	409	700	177	141	—	40,6	2,2	387	678	412	703	177	141	36,6	37,6
PVM 5-7	3	2,2	436	727	177	141	—	41,1	2,2	414	705	439	730	177	141	37,1	38,1
PVM 5-8	3	2,2	463	754	177	141	—	41,6	2,2	441	732	466	757	177	141	37,7	38,6
PVM 5-9	3	2,2	490	781	177	141	—	42,1	2,2	468	759	493	784	177	141	38,2	39,2
PVM 5-10	4	3	521	837	197	147	—	50,2	3	500	816	525	841	197	147	46,0	46,9
PVM 5-11	4	3	548	864	197	147	—	50,7	3	527	843	552	868	197	147	46,5	47,4
PVM 5-12	4	3	575	891	197	147	—	51,2	3	554	870	579	895	197	147	47,0	48,0
PVM 5-13	5,5	4	602	928	220	161	—	55,1	4	581	907	606	932	220	161	51,0	51,9
PVM 5-14	5,5	4	629	955	220	161	—	55,7	4	608	934	633	959	220	161	51,5	52,5
PVM 5-15	5,5	4	656	982	220	161	—	56,1	4	635	961	660	986	220	161	52,1	53,0
PVM 5-16	5,5	4	683	1009	220	161	—	56,7	4	662	988	687	1013	220	161	52,6	53,6
PVM 5-18	7,5	5,5	767	1129	235	197	300	77,9	5,5	745	1107	770	1132	235	197	73,8	74,8
PVM 5-20	7,5	5,5	821	1183	235	197	300	79,1	5,5	799	1161	824	1186	235	197	75,1	76,0
PVM 5-22	7,5	5,5	875	1237	235	197	300	80,0	5,5	853	1215	878	1240	235	197	75,9	76,9
PVM 5-24	10	7,5	929	1327	235	197	300	89,6	7,5	907	1305	932	1330	235	197	85,6	86,5



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

PVM(I/X) 5

3500 rpm

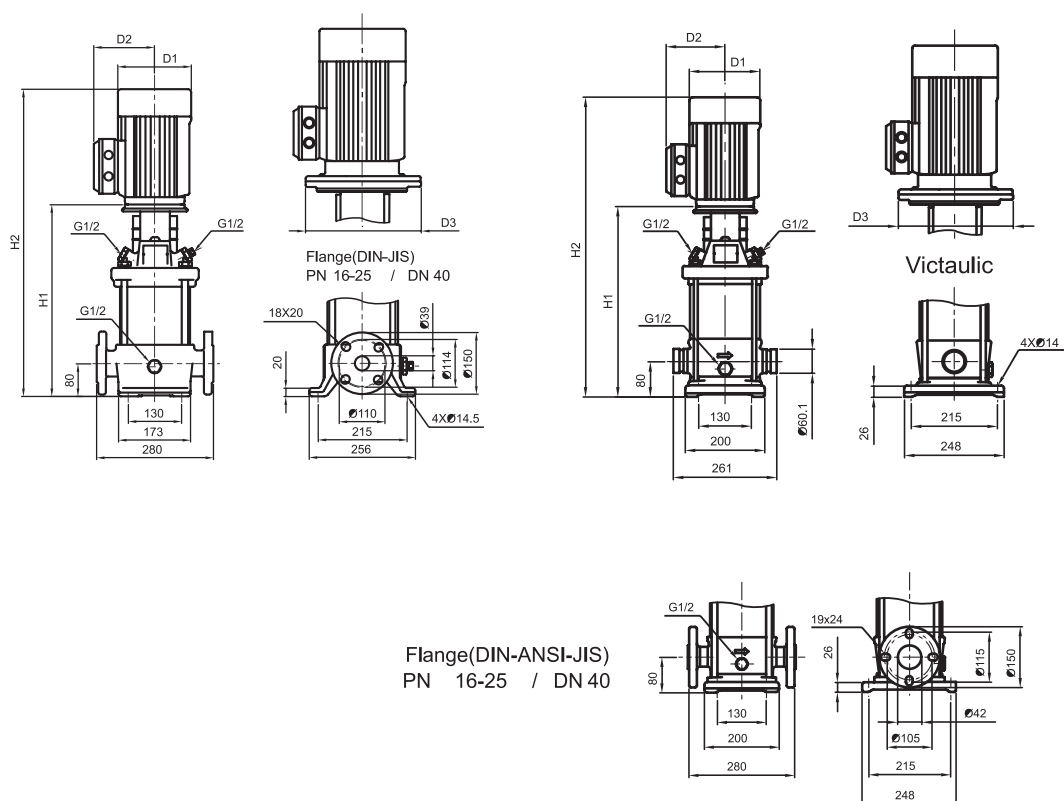
60 Hz

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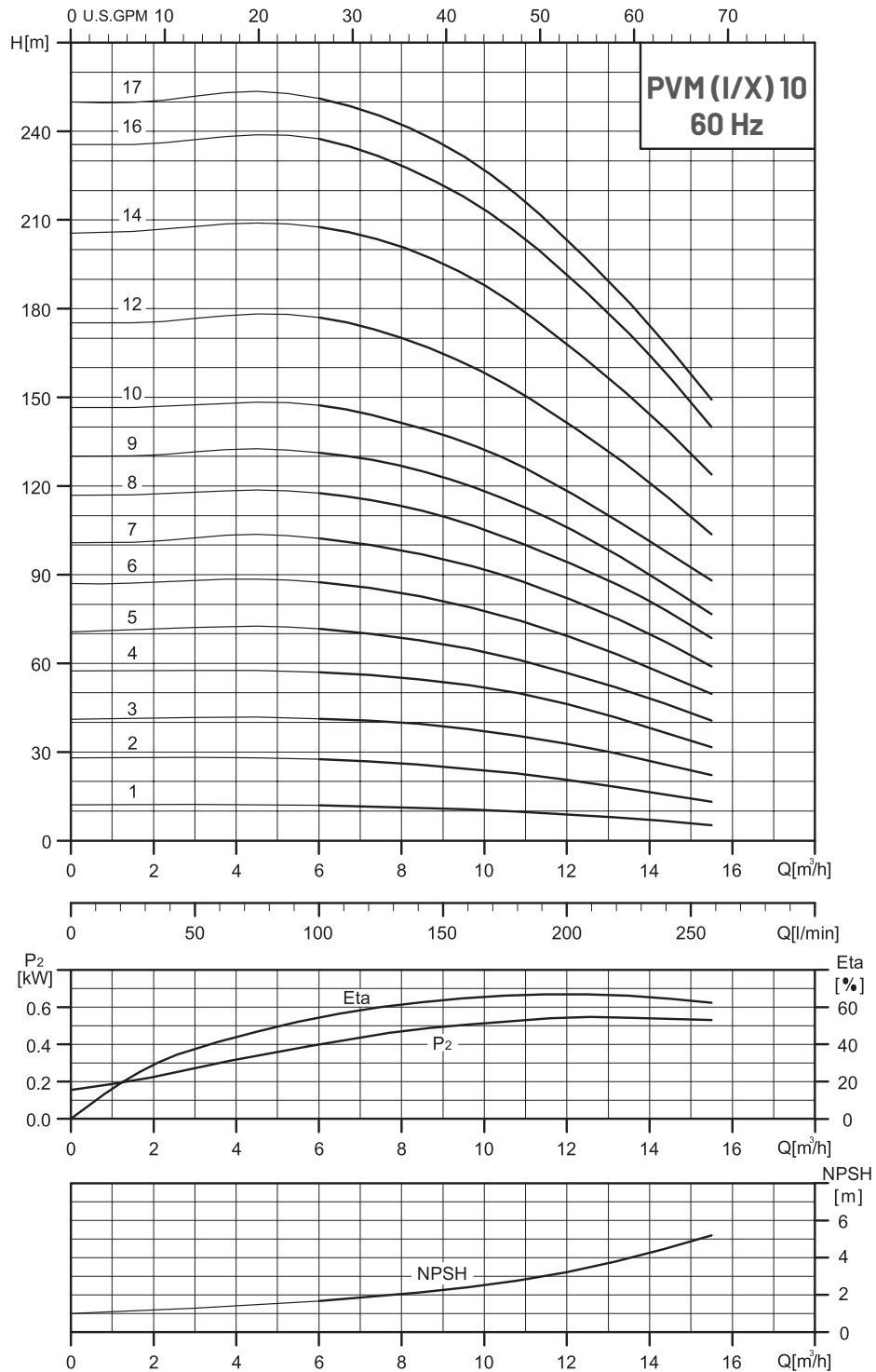
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM						PVMI - PVMX								
			DIMENSION [mm]						DIMENSION [mm]								
	P ₂		DIN Flange		D1	D2	D3	DIN Flange	Victaulic		DIN Flange		D1	D2	D3	Victaulic	DIN Flange
	[HP]	[KW]	H1	H2					H1	H2	H1	H2					
PVM 10-1	1	0,75	347	582	141	115	—	38,0	357	592	357	592	141	115	—	34,1	34,0
PVM 10-2	2	1,5	363	654	177	141	—	48,0	373	664	373	664	177	141	—	44,1	44,0
PVM 10-3	3	2,2	393	684	177	141	—	51,9	403	694	403	694	177	141	—	47,9	47,8
PVM 10-4	4	3	428	744	197	147	—	60,7	438	754	438	754	197	147	—	55,9	55,8
PVM 10-5	4	3	458	774	197	147	—	61,7	468	784	468	784	197	147	—	57,0	56,8
PVM 10-6	5,5	4	488	814	220	161	—	66,2	498	824	498	824	220	161	—	61,4	61,3
PVM 10-7	7,5	5,5	550	912	235	197	300	93,4	560	922	560	922	235	197	300	89,8	89,7
PVM 10-8	7,5	5,5	580	942	235	197	300	94,5	590	952	590	952	235	197	300	90,9	90,7
PVM 10-9	7,5	5,5	610	972	235	197	300	95,5	620	982	620	982	235	197	300	91,9	91,7
PVM 10-10	10	7,5	640	1038	235	197	300	105,2	650	1048	650	1048	235	197	300	101,5	101,4
PVM 10-12	10	7,5	700	1098	235	197	300	107,2	710	1108	710	1108	235	197	300	103,6	103,4
PVM 10-14	15	11	837	1342	318	245	350	146,0	847	1352	847	1352	318	245	350	142,7	142,5
PVM 10-16	15	11	897	1402	318	245	350	148,1	907	1412	907	1412	318	245	350	144,7	144,6
PVM 10-17	15	11	957	1462	318	245	350	149,2	967	1472	967	1472	318	245	350	145,9	145,7



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

PVM(I/X) 10

3500 rpm

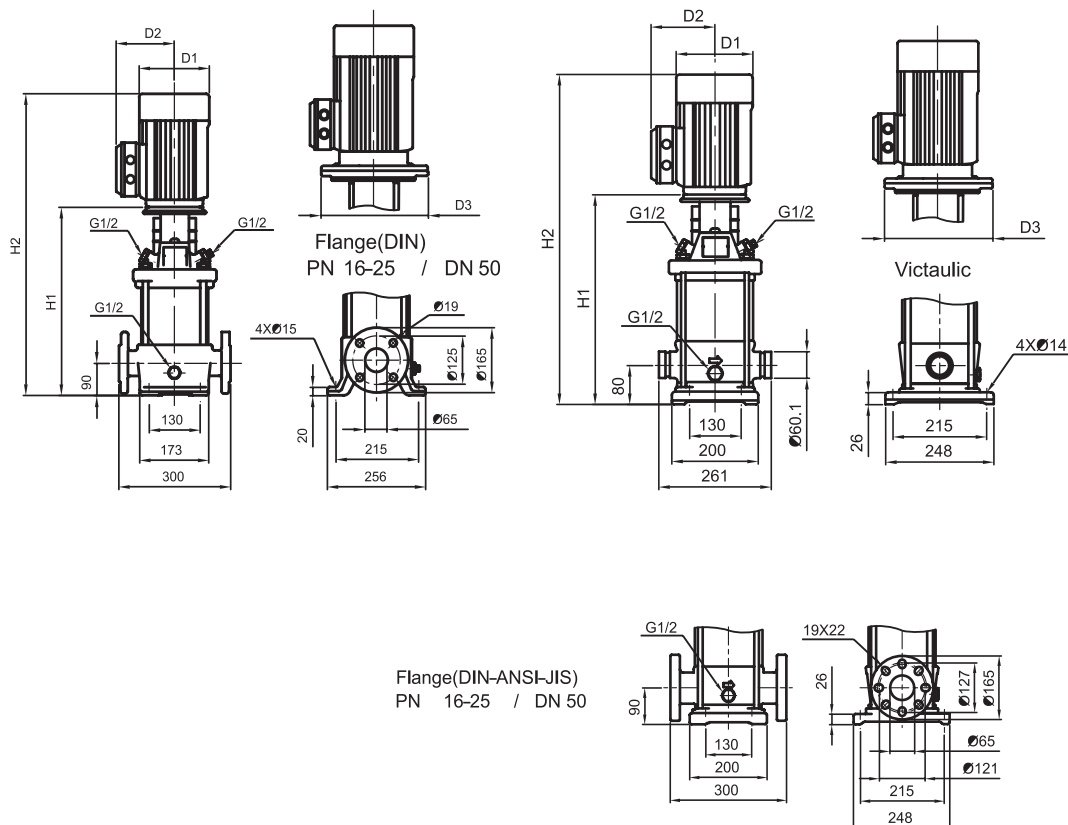
60 Hz

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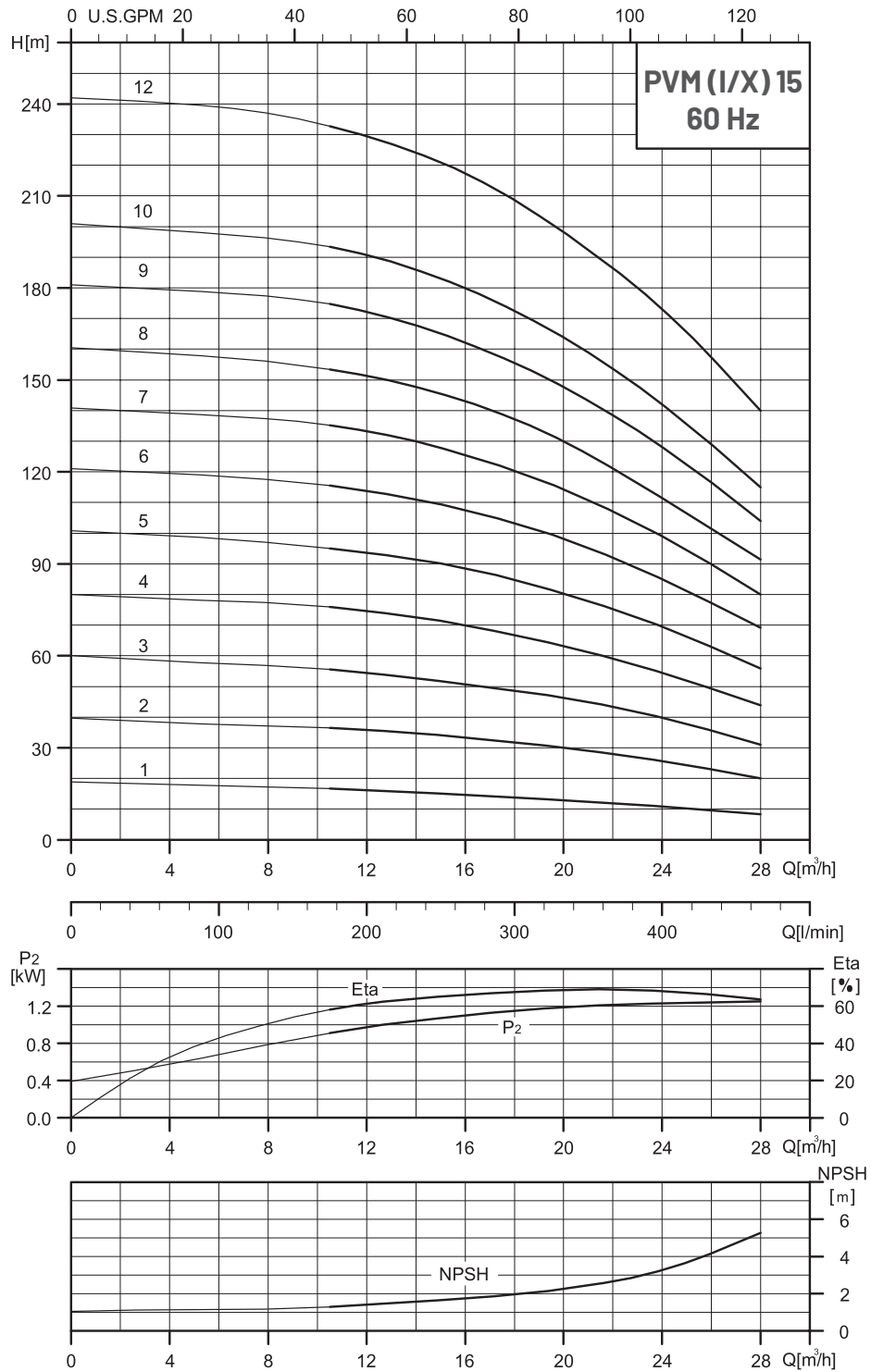
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM						PVMI - PVMX								
			DIMENSION [mm]						DIMENSION [mm]								
	P ₂		DIN Flange		D1	D2	D3	DIN Flange	Victaulic		DIN Flange		D1	D2	D3	Victaulic	DIN Flange
	[HP]	[KW]	H1	H2					H1	H2	H1	H2					
PVM 15-1	2	1,5	415	706	177	141	—	52,6	403	694	413	704	177	141	—	44,6	45,3
PVM 15-2	4	3	420	736	197	147	—	63,5	408	724	418	734	197	147	—	54,7	55,3
PVM 15-3	5,5	4	465	791	220	161	—	68,3	453	779	463	789	220	161	—	59,5	60,1
PVM 15-4	7,5	5,5	542	904	235	197	300	96,0	530	892	540	902	235	197	300	88,3	88,9
PVM 15-5	10	7,5	587	985	235	197	300	106,0	575	973	585	983	235	197	300	98,3	99,0
PVM 15-6	15	11	709	1214	318	245	350	144,2	697	1202	707	1212	318	245	350	136,9	137,5
PVM 15-7	15	11	754	1259	318	245	350	145,7	742	1247	752	1257	318	245	350	138,3	138,9
PVM 15-8	15	11	799	1304	318	245	350	147,1	787	1292	797	1302	318	245	350	139,7	140,3
PVM 15-9	20	15	844	1354	318	245	350	158,6	832	1342	842	1352	318	245	350	151,3	151,9
PVM 15-10	20	15	889	1399	318	245	350	160,1	877	1387	887	1397	318	245	350	152,8	153,4
PVM 15-12	25	18,5	979	1529	318	245	350	188,0	967	1517	977	1527	318	245	350	180,5	181,2



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

PVM(I/X) 15

3500 rpm

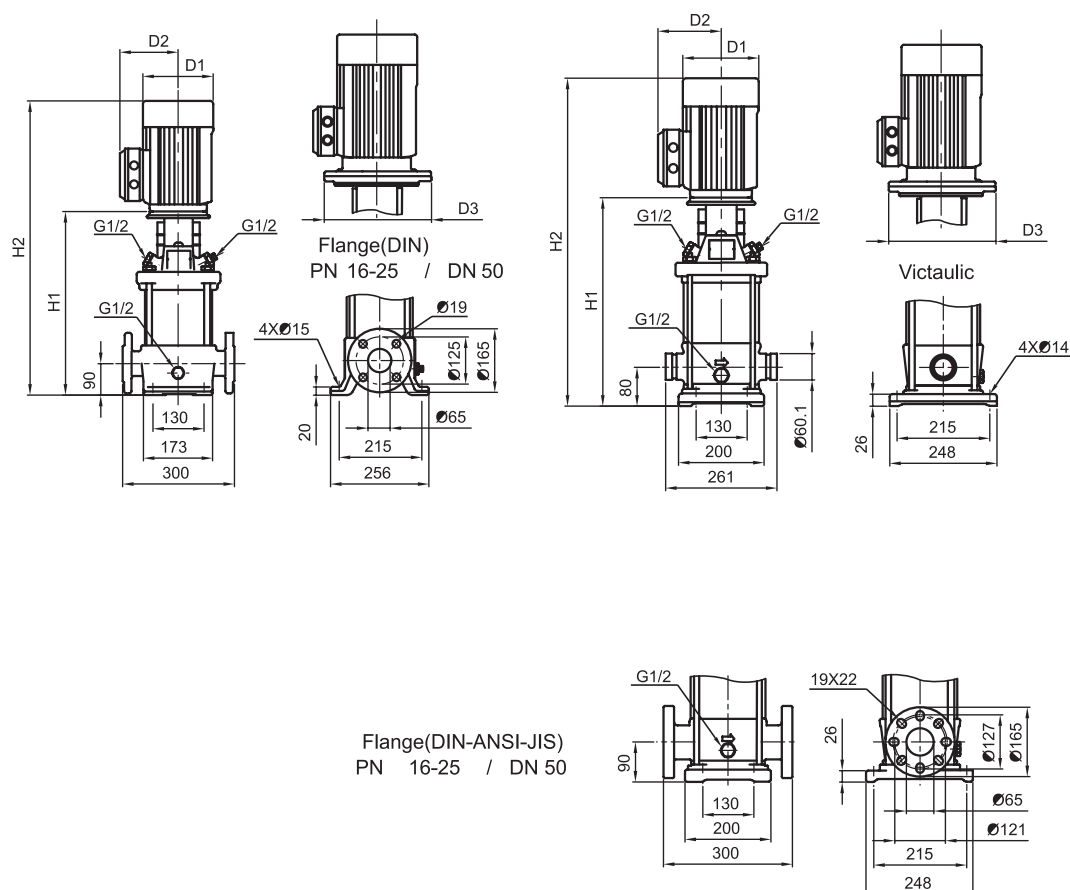
60 Hz

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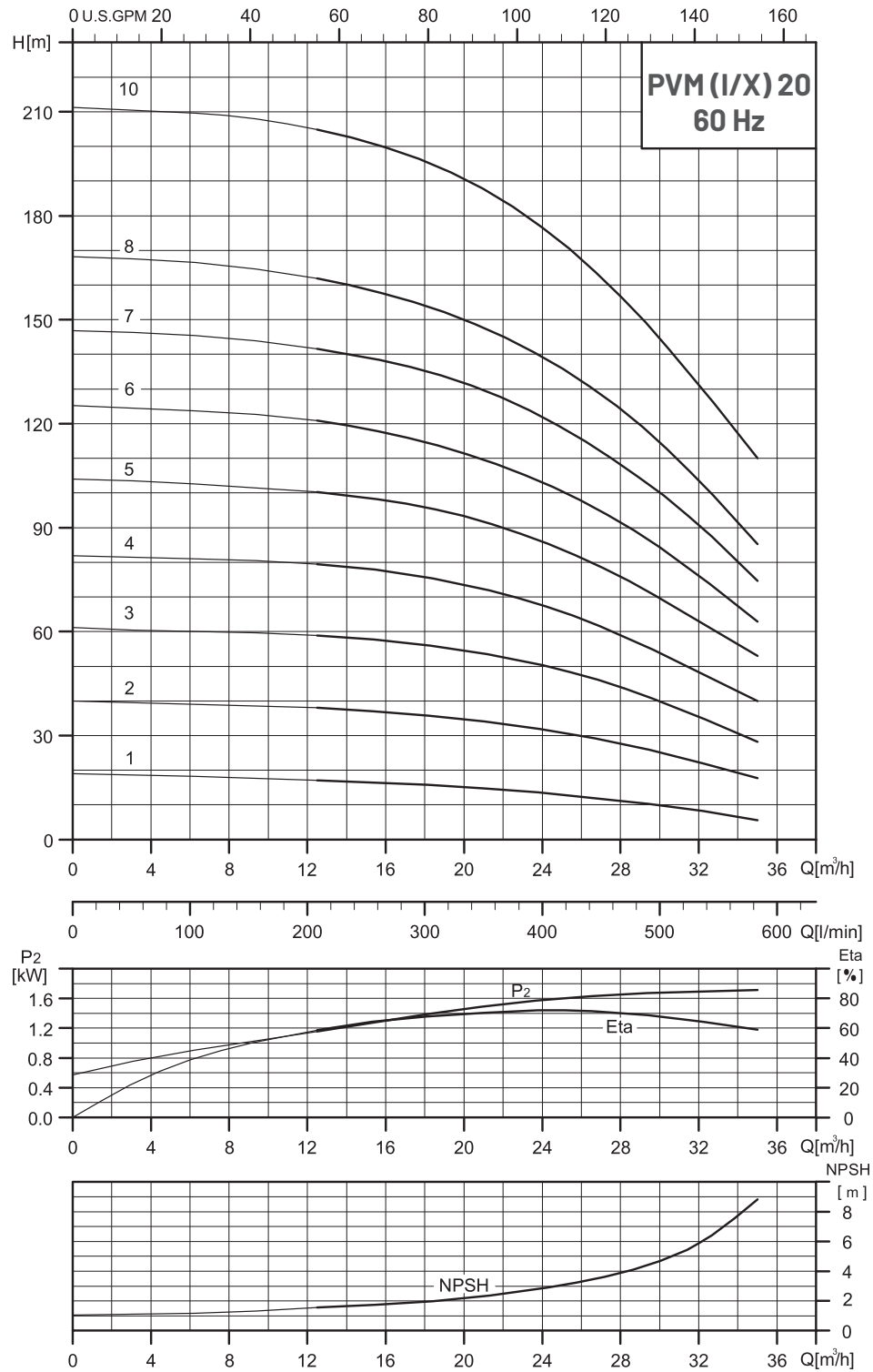
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM						PVMI - PVMX								
			DIMENSION [mm]					Net Weight [kg]	DIMENSION [mm]							Net Weight [kg]	
	P ₂		DIN Flange		D1	D2	D3	DIN Flange	Victaulic		DIN Flange		D1	D2	D3	Victaulic	DIN Flange
	[HP]	[KW]	H1	H2					H1	H2	H1	H2					
PVM 20-1	3	2,2	415	706	177	141	—	55,4	405	696	415	706	177	141	—	47,4	48,1
PVM 20-2	5,5	4	420	746	220	161	—	66,9	410	736	420	746	220	161	—	58,1	58,7
PVM 20-3	7,5	5,5	497	859	235	197	300	94,6	487	849	497	859	235	197	300	86,9	87,5
PVM 20-4	10	7,5	542	940	235	197	300	104,6	532	930	542	940	235	197	300	96,9	97,5
PVM 20-5	15	11	664	1169	318	245	350	142,7	654	1159	664	1169	318	245	350	135,4	136,0
PVM 20-6	15	11	709	1214	318	245	350	144,2	699	1204	709	1214	318	245	350	136,9	137,5
PVM 20-7	20	15	754	1264	318	245	350	155,8	744	1254	754	1264	318	245	350	148,4	149,0
PVM 20-8	20	15	799	1309	318	245	350	157,2	789	1299	799	1309	318	245	350	149,8	150,4
PVM 20-10	25	18,5	889	1439	318	245	350	185,0	879	1429	889	1439	318	245	350	177,7	178,3



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg} / \text{dm}^3$ at 20°C

PVM(I/X) 20

3500 rpm

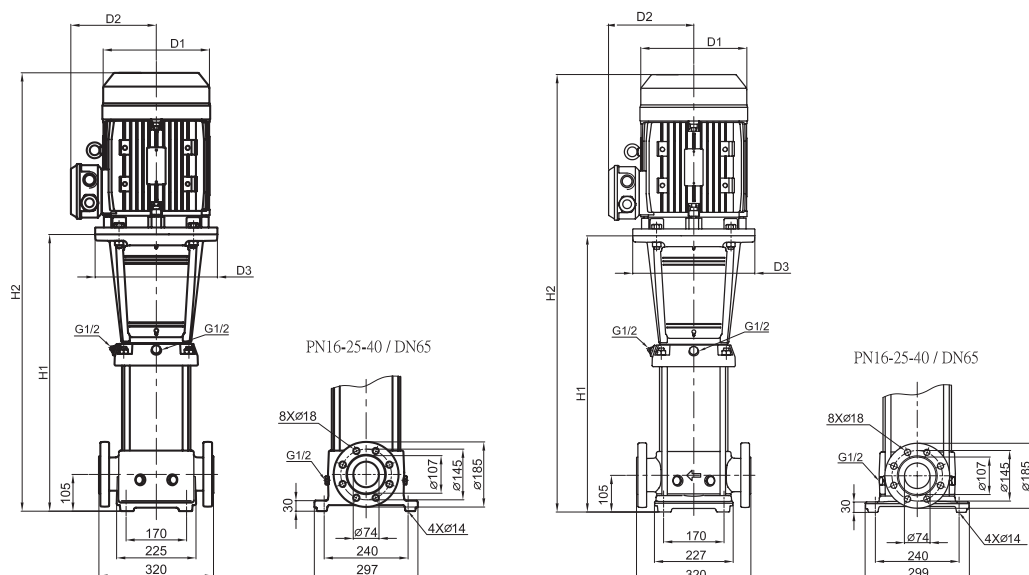
60 Hz

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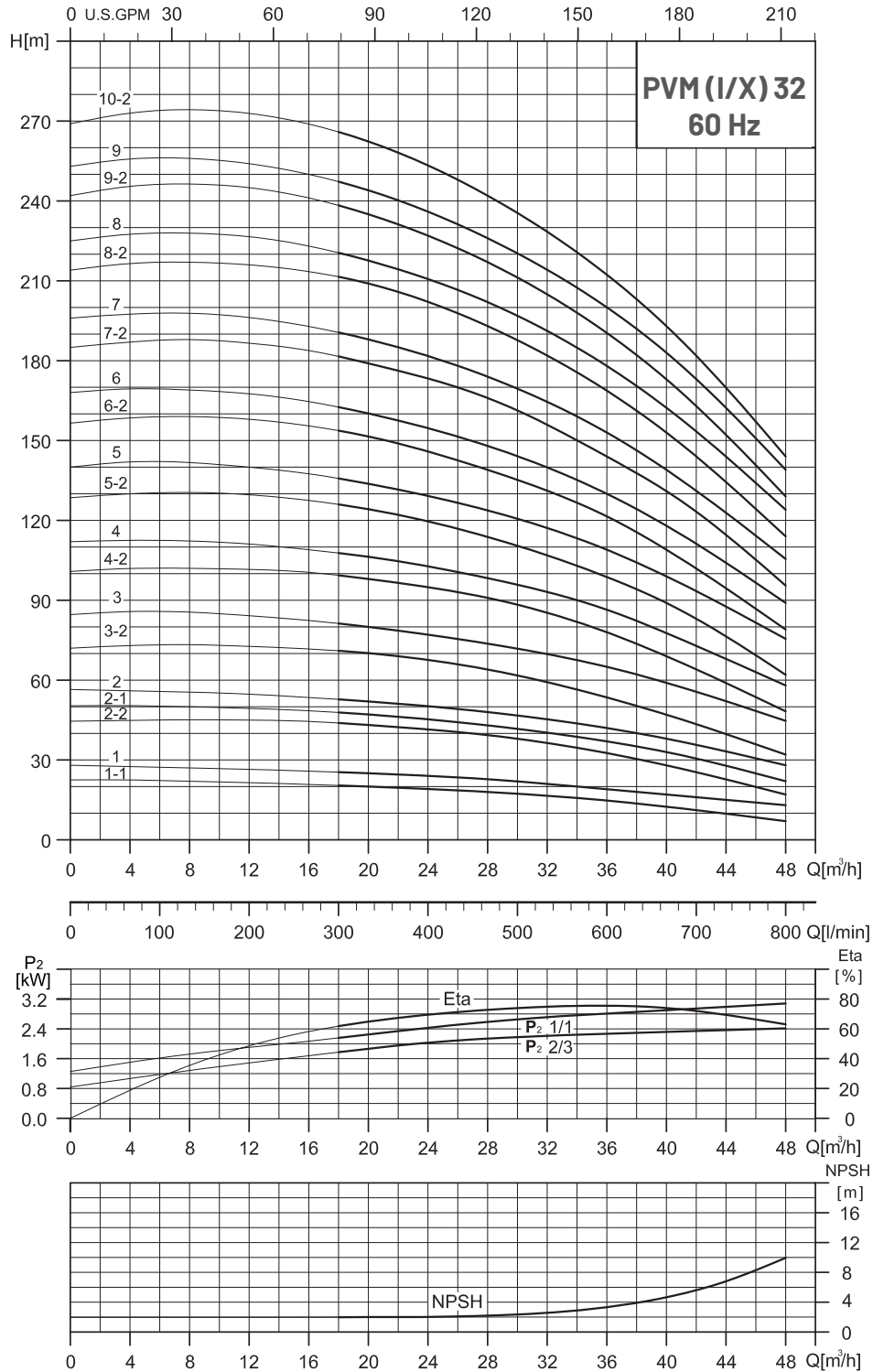
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM						PVMi - PVMX					
			DIMENSION [mm]				Net Weight [kg]	DIMENSION [mm]				Net Weight [kg]		
	P ₂		DIN Flange		D1	D2		D3	DIN Flange	DIN Flange			D1	D2
	[HP]	[KW]	H1	H2			H1			H2				
PVM 32-1-1	3	2,2	504	795	177	141	280	74,3	504	795	177	141	280	69,3
PVM 32-1	4	3	504	820	197	147	280	81,1	504	820	197	147	280	76,0
PVM 32-2-2	7,5	5,5	574	900	235	197	300	103,6	574	900	235	197	300	98,6
PVM 32-2	10	7,5	574	936	235	197	300	103,7	574	936	235	197	300	51
PVM 32-3-2	15	11	574	936	235	197	300	112,3	574	936	235	197	300	98,6
PVM 32-3	15	11	754	1259	318	245	350	157,0	754	1259	318	245	350	152,0
PVM 32-4-2	15	11	754	1259	318	245	350	157,1	754	1259	318	245	350	152,0
PVM 32-4	20	15	824	1329	318	245	350	160,2	824	1329	318	245	350	155,1
PVM 32-5-2	20	15	824	1334	318	245	350	170,3	824	1334	318	245	350	165,2
PVM 32-5	25	18,5	894	1404	318	245	350	173,4	894	1404	318	245	350	168,3
PVM 32-6-2	25	18,5	894	1444	318	245	350	198,3	894	1444	318	245	350	193,3
PVM 32-6	25	18,5	964	1514	318	245	350	201,3	964	1514	318	245	350	196,3
PVM 32-7-2	30	22	964	1514	318	245	350	201,3	964	1514	318	245	350	196,4
PVM 32-7	30	22	1034	1614	358	265	350	247,2	1034	1614	358	265	350	242,2
PVM 32-8-2	40	30	1034	1614	358	265	350	247,2	1034	1614	358	265	350	242,3
PVM 32-8	40	30	1104	1764	420	295	400	315,1	1104	1764	420	295	400	310,1
PVM 32-9-2	40	30	1104	1764	420	295	400	315,1	1104	1764	420	295	400	310,1
PVM 32-9	40	30	1174	1834	420	295	400	317,8	1174	1834	420	295	400	312,8
PVM 32-10-2	40	30	1174	1834	420	295	400	317,8	1174	1834	420	295	400	312,9
PVM 32-10	40	30	1244	1904	420	295	400	320,5	1244	1904	420	295	400	315,5



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

PVM(I/X) 32

3500 rpm

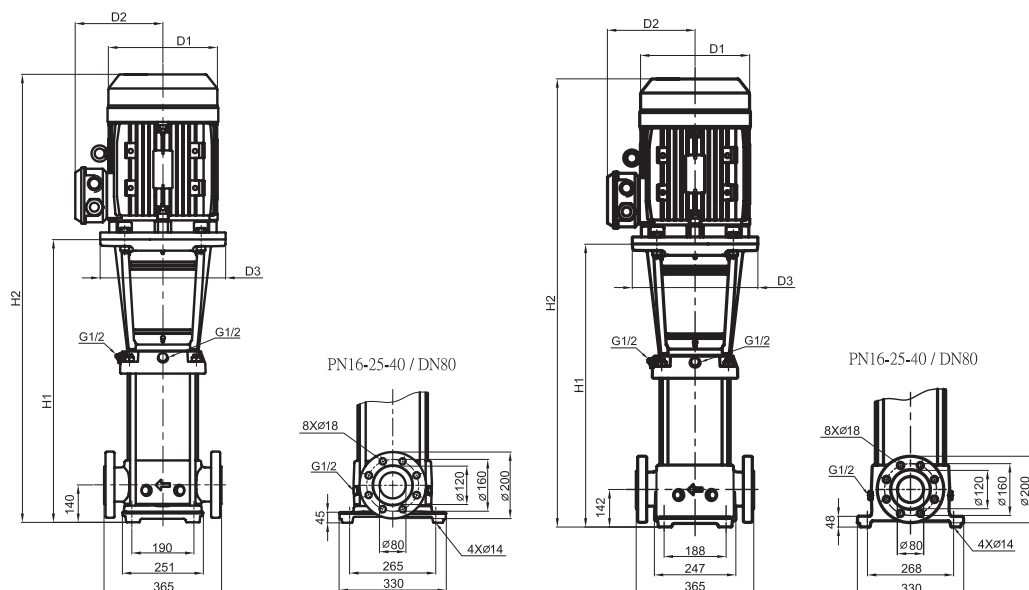
60 Hz

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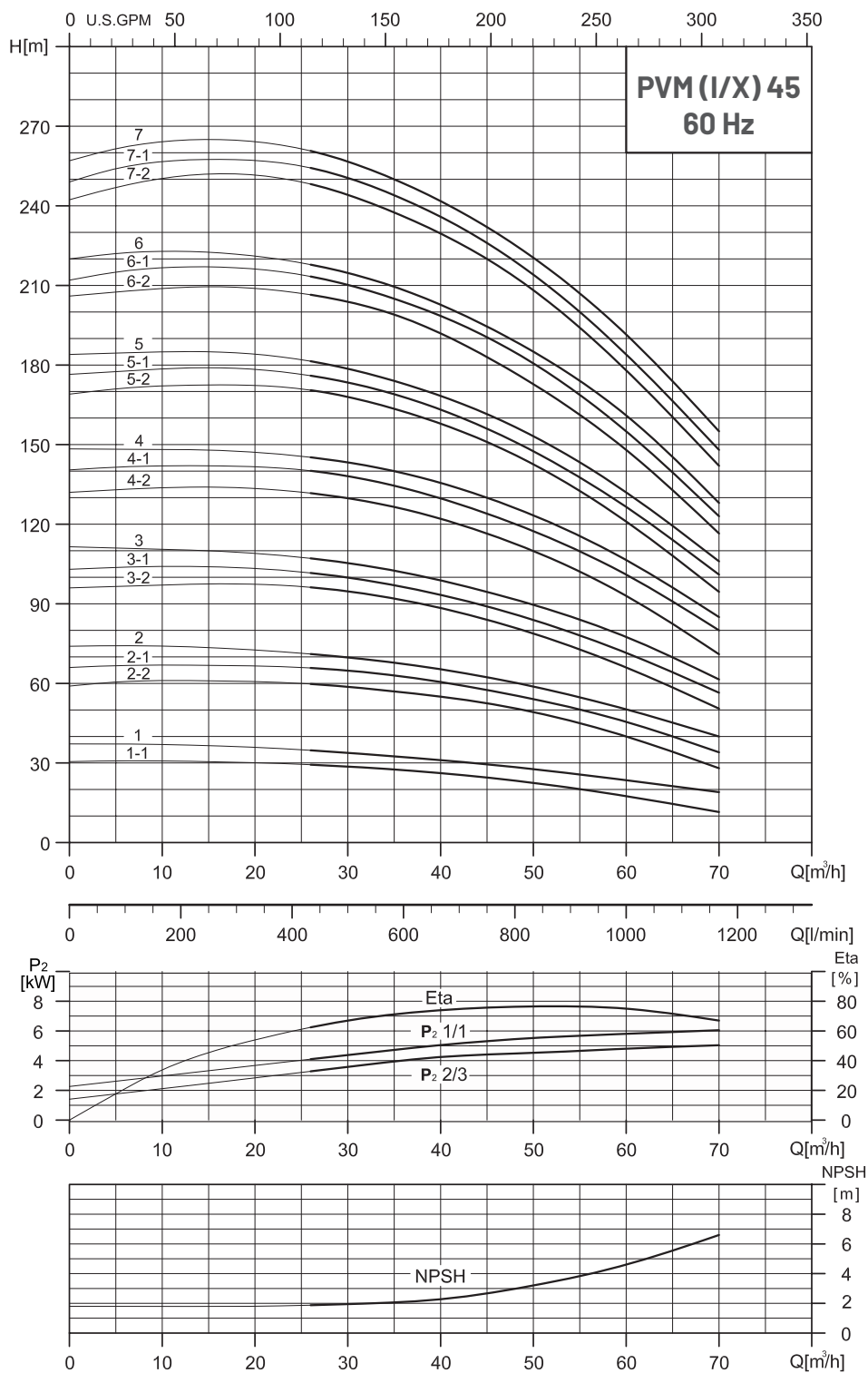
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM						PVMI - PVMX					
			DIMENSION [mm]						DIMENSION [mm]					
	P ₂		DIN Flange		D1	D2	D3	DIN Flange	DIN Flange		D1	D2	D3	DIN Flange
	[HP]	[KW]	H1	H2					H1	H2				
PVM 45-1-1	7,5	5,5	561	923	235	197	300	111,2	559	921	235	197	300	102,4
PVM 45-1	10	7,5	561	959	235	197	300	119,8	559	957	235	197	300	111,0
PVM 45-2-2	15	11	751	1256	318	245	350	165,2	749	1254	318	245	350	156,4
PVM 45-2	15	11	751	1256	318	245	350	165,2	749	1254	318	245	350	156,4
PVM 45-3-2	20	15	751	1261	318	245	350	175,3	749	1259	318	245	350	166,5
PVM 45-3	25	18,5	831	1381	318	245	350	204,0	829	1379	318	245	350	195,2
PVM 45-4-2	25	18,5	831	1381	318	245	350	204,0	829	1379	318	245	350	195,2
PVM 45-4	25	18,5	831	1381	318	245	350	204,0	829	1379	318	245	350	195,2
PVM 45-5-2	30	22	911	1491	358	265	350	250,5	909	1489	358	265	350	241,7
PVM 45-5	40	30	911	1571	420	295	400	315,1	909	1569	420	295	400	306,3
PVM 45-6-2	40	30	911	1571	420	295	400	315,1	909	1569	420	295	400	306,3
PVM 45-6	40	30	991	1651	420	295	400	318,9	989	1649	420	295	400	310,1
PVM 45-7-2	40	30	991	1651	420	295	400	318,9	989	1649	420	295	400	310,1
PVM 45-7	40	30	991	1651	420	295	400	318,9	989	1649	420	295	400	310,1
PVM 45-8-2	50	37	1071	1731	420	295	400	335,7	1069	1729	420	295	400	326,9
PVM 45-8	50	37	1071	1731	420	295	400	335,7	1069	1729	420	295	400	326,9
PVM 45-9-2	50	37	1071	1731	420	295	400	335,7	1069	1729	420	295	400	326,9
PVM 45-9	60	45	1151	1841	470	325	450	397,5	1149	1839	470	325	450	388,7
PVM 45-10-2	60	45	1151	1841	470	325	450	397,5	1149	1839	470	325	450	388,8
PVM 45-10	60	45	1151	1841	470	325	450	397,6	1149	1839	470	325	450	388,8



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

PVM(I/X) 45

3500 rpm

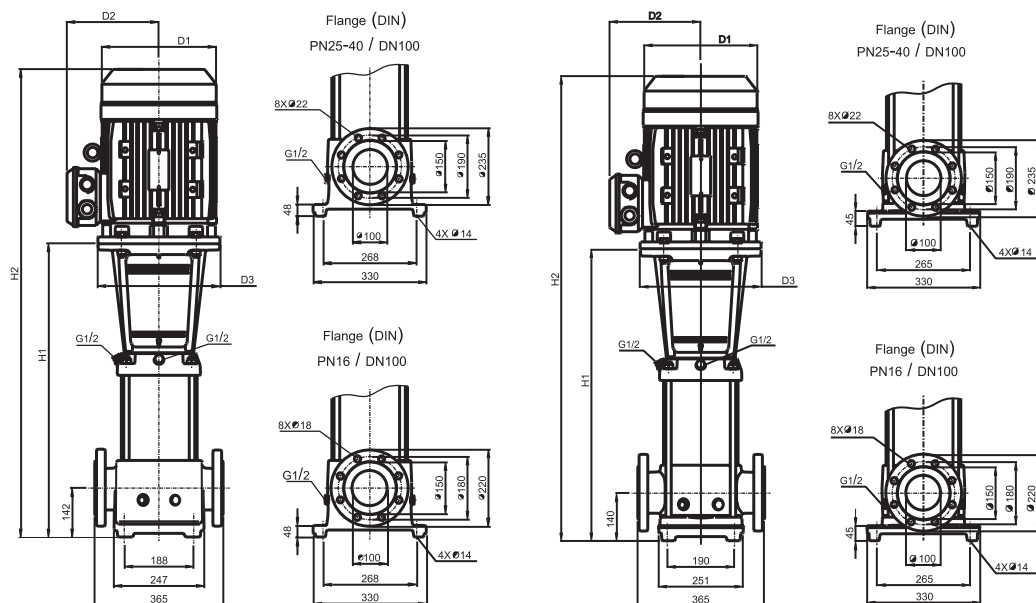
60 Hz

ISO 9906 - Annex A

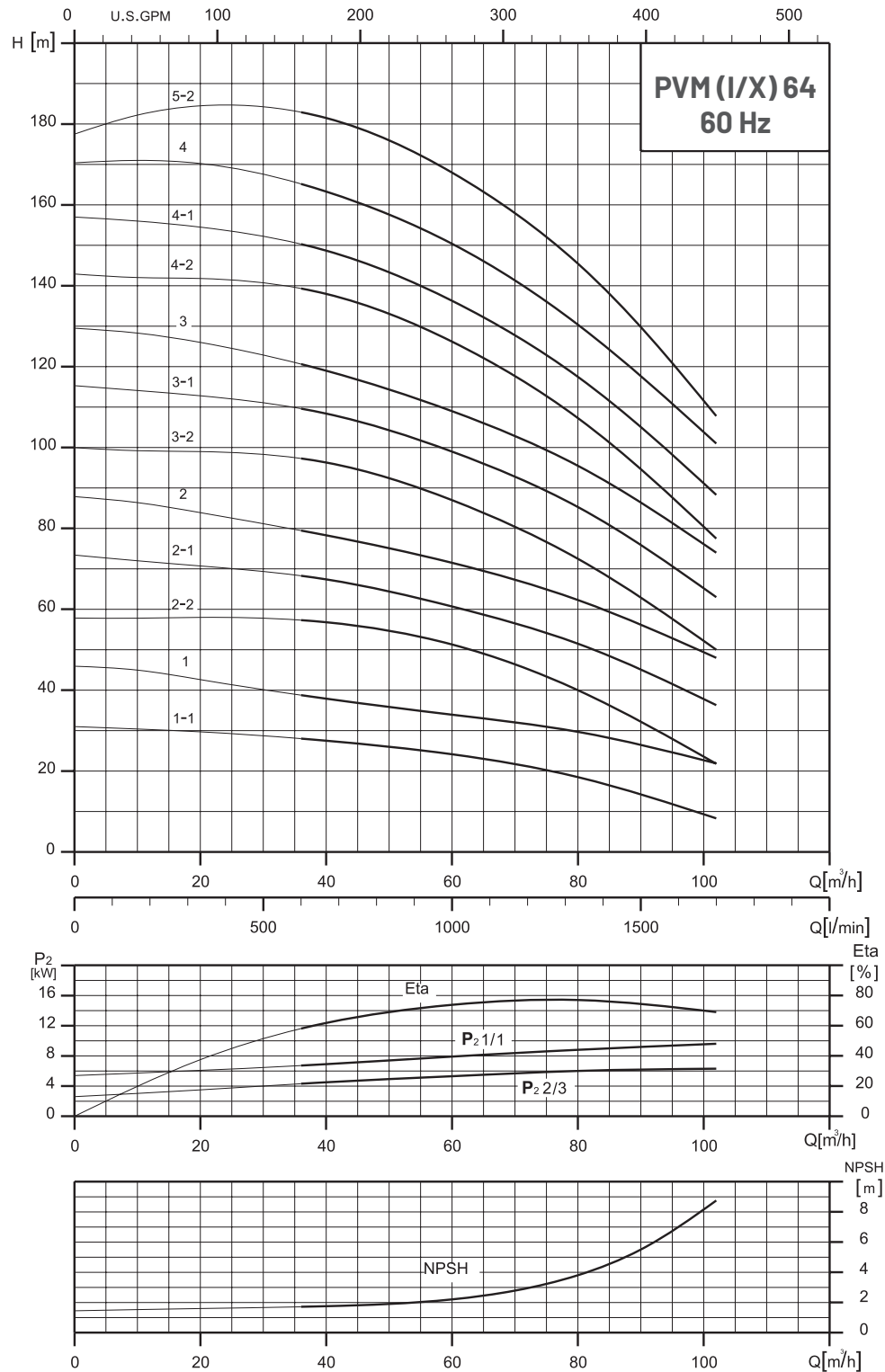
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM							PVMI - PVMX					
			DIMENSION [mm]							DIMENSION [mm]					Net Weight [kg]
	P ₂		DIN Flange		D1	D2	D3	DIN Flange	DIN Flange	DIN Flange		D1	D2	D3	DIN Flange
	[HP]	[KW]	H1	H2						H1	H2				
PVM 64-1-1	10	7,5	563	961	235	197	300	113,5		563	961	235	197	300	106,5
PVM 64-1	15	11	673	1178	318	245	350	155,2		673	1178	318	245	350	148,2
PVM 64-2-2	20	15	756	1266	318	245	350	169,4		756	1266	318	245	350	162,4
PVM 64-2-1	25	18,5	756	1306	318	245	350	194,3		756	1306	318	245	350	187,3
PVM 64-2	30	22	756	1336	358	265	350	237,0		756	1336	358	265	350	230,0
PVM 64-3-2	30	22	838	1418	358	265	350	241,6		838	1418	358	265	350	234,1
PVM 64-3-1	40	30	838	1498	420	295	400	306,2		838	1498	420	295	400	298,7
PVM 64-3	40	30	838	1498	420	295	400	306,2		838	1498	420	295	400	298,7
PVM 64-4-2	50	37	921	1581	420	295	400	323,2		921	1581	420	295	400	315,7
PVM 64-4-1	50	37	921	1581	420	295	400	323,2		921	1581	420	295	400	315,7
PVM 64-4	60	45	925	1585	470	325	450	381,4		925	1585	470	325	450	373,8
PVM 64-5-2	60	45	1007	1667	470	325	450	385,4		1007	1667	470	325	450	373,7



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg} / \text{dm}^3$ at 20°C

PVM(I/X) 64

3500 rpm

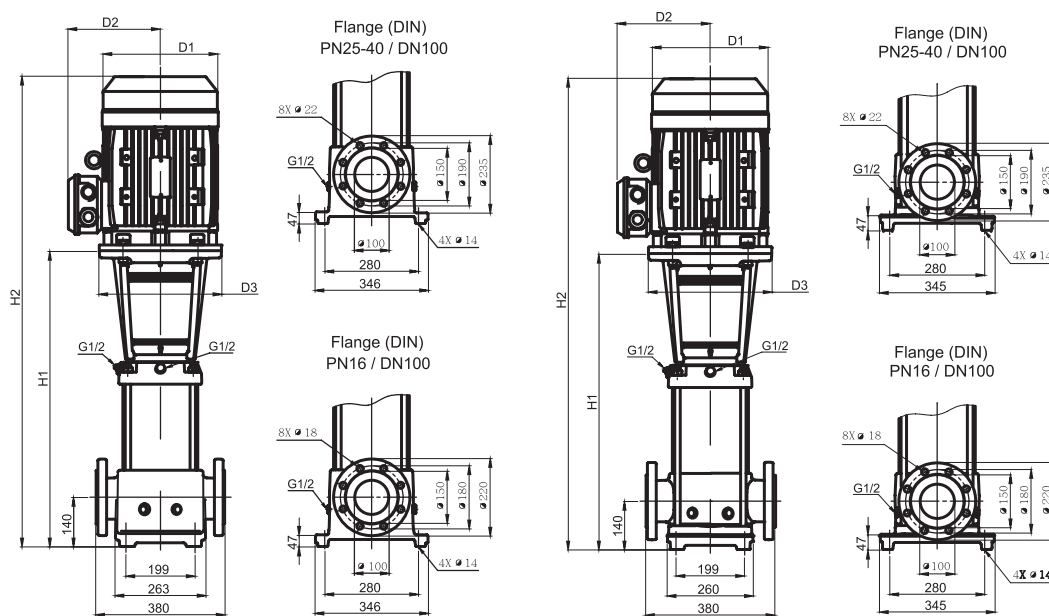
60 Hz

ISO 9906 - Annex A

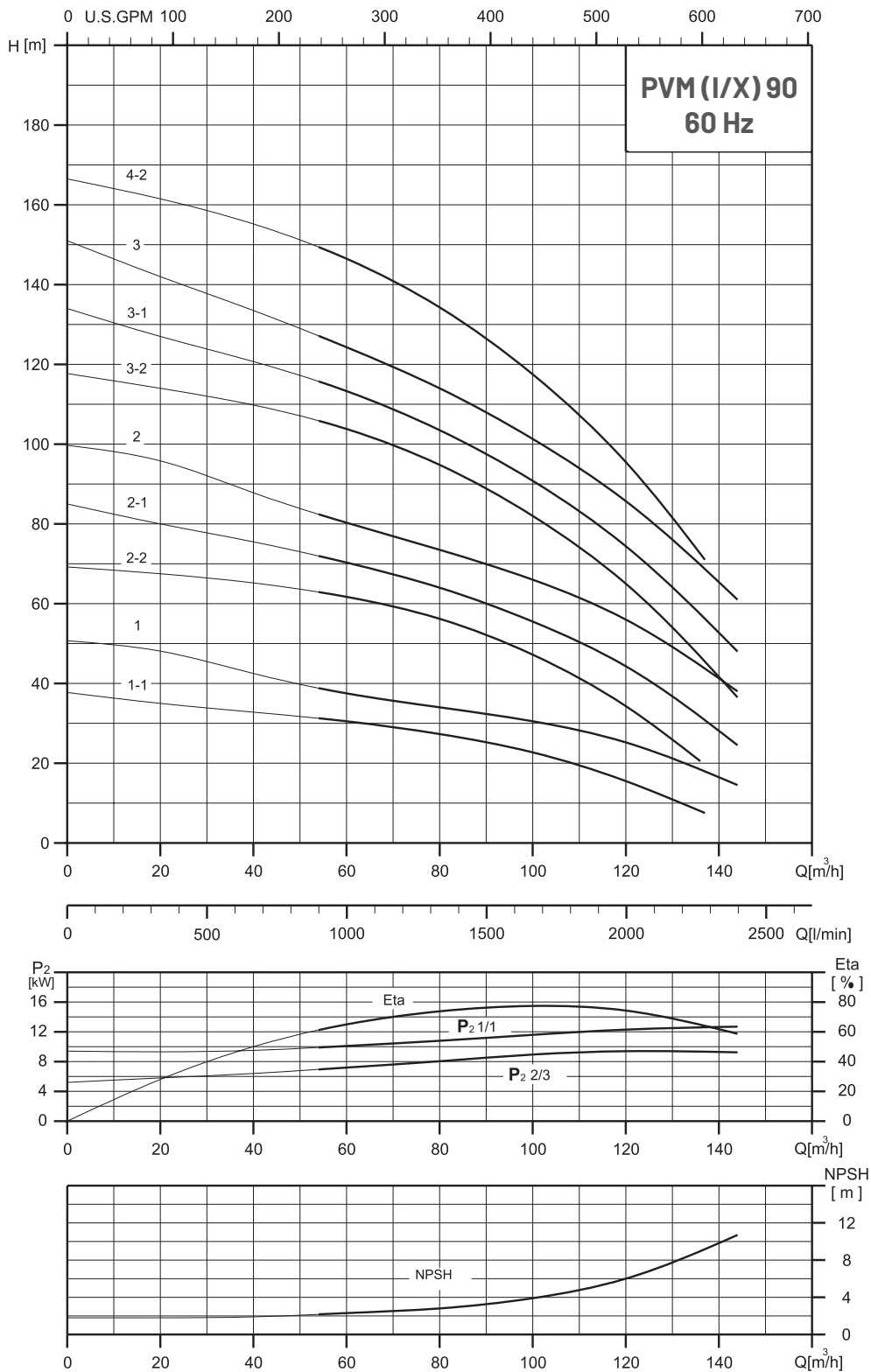
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM						PVMI - PVMX					
			DIMENSION [mm]						DIMENSION [mm]					
	P ₂		DIN Flange		D1	D2	D3	DIN Flange	DIN Flange		D1	D2	D3	Net Weight [kg]
	[HP]	[KW]	H1	H2					H1	H2				
PVM 90-1-1	15	11	682	1187	318	245	350	169,1	686	1191	318	245	350	159,0
PVM 90-1	20	15	682	1192	318	245	350	179,1	686	1196	318	245	350	169,0
PVM 90-2-2	25	18,5	774	1324	318	245	350	209,4	778	1328	318	245	350	199,2
PVM 90-2-1	30	22	774	1354	358	265	350	252,2	778	1358	358	265	350	242,0
PVM 90-2	40	30	774	1434	420	295	400	316,8	778	1438	420	295	400	306,6
PVM 90-3-2	50	37	866	1526	420	295	400	335,0	870	1530	420	295	400	324,8
PVM 90-3-1	50	37	866	1526	420	295	400	335,0	870	1530	420	295	400	324,8
PVM 90-3	60	45	866	1556	470	325	450	393,1	870	1560	470	325	450	382,9
PVM 90-4-2	60	45	958	1648	470	325	450	400,3	962	1652	470	325	450	389,9



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg} / \text{dm}^3$ at 20°C

PVM(I/X) 90

3500 rpm

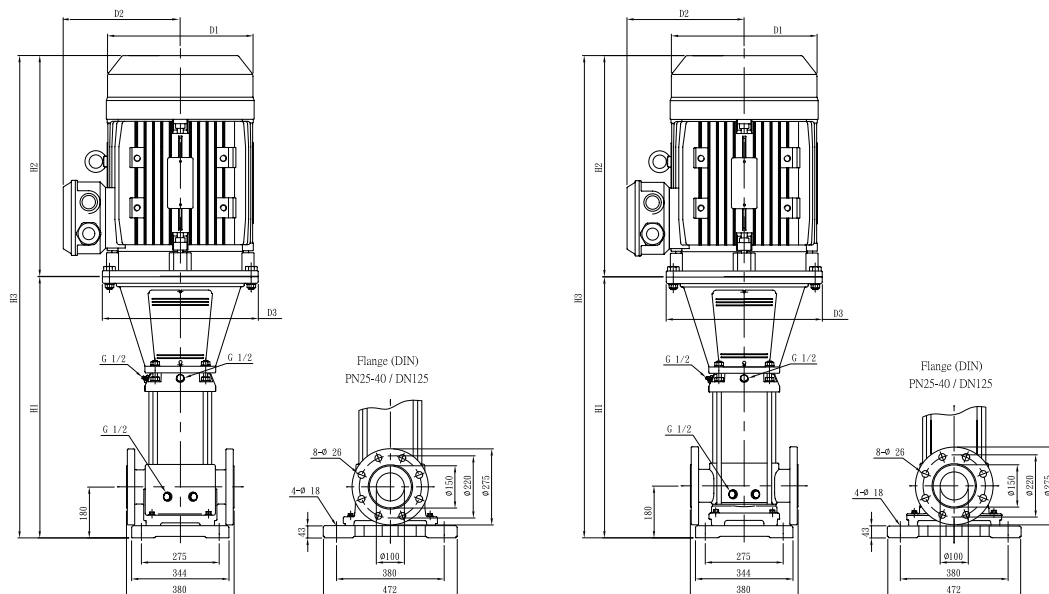
60 Hz

ISO 9906 - Annex A

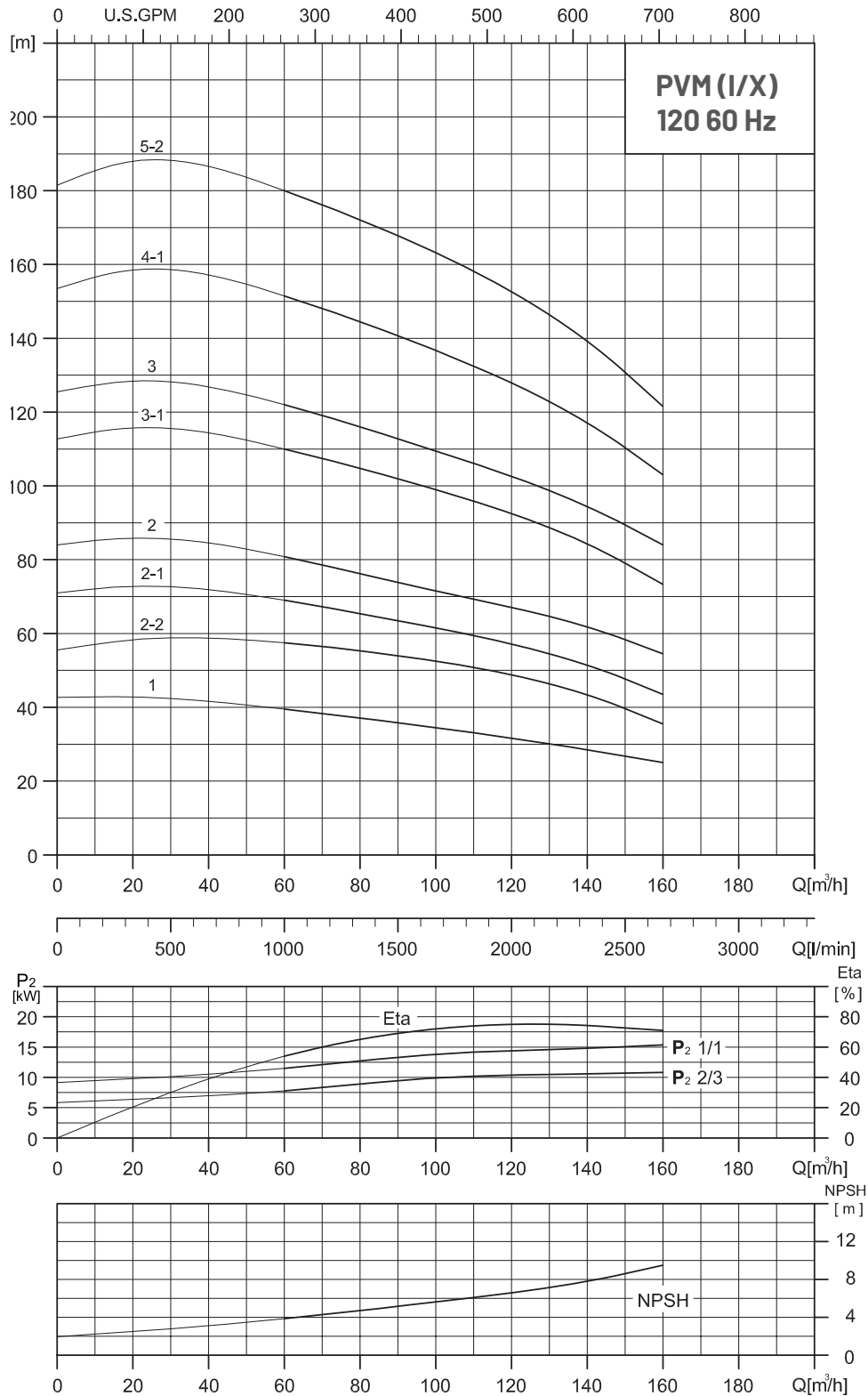
MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP DIMENSIONS

PUMP TYPE	MOTOR		PVM							PVMI - PVMX						
			DIMENSION [mm]						Net Weight [kg]	DIMENSION [mm]						Net Weight [kg]
	P ₂		DIN Flange			D1	D2	D3	DIN Flange	DIN Flange			D1	D2	D3	DIN Flange
	[HP]	[KW]	H1	H2	H3					H1	H2	H3				
PVM 120-1	25	18,5	834,0	550	1384,0	318	245	350	235,1	837,0	550	1387,0	318	245	350	215,2
PVM 120-2-2	40	30	989,5	660	1649,5	420	295	400	352,4	992,5	660	1652,5	420	295	400	336,7
PVM 120-2-1	40	30	989,5	660	1649,5	420	295	400	352,5	992,5	660	1652,5	420	295	400	336,8
PVM 120-2	50	37	989,5	660	1649,5	420	295	400	365,5	992,5	660	1652,5	420	295	400	349,9
PVM 120-3-1	60	45	1149,0	690	1839,0	470	325	450	433,5	1152,0	690	1842,0	470	325	450	418,0
PVM 120-3	75	55	1175,0	770	1945,0	510	355	550	548,8	1178,0	770	1948,0	510	355	550	533,4
PVM 120-4-1	100	75	1330,5	845	2175,5	580	410	550	721,2	1333,5	845	2178,5	580	410	550	706,0
PVM 120-5-2	100	75	1486,0	845	2331,0	580	410	550	731,2	1489,0	845	2334,0	580	410	550	716,0



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

PVM(I/X) 120

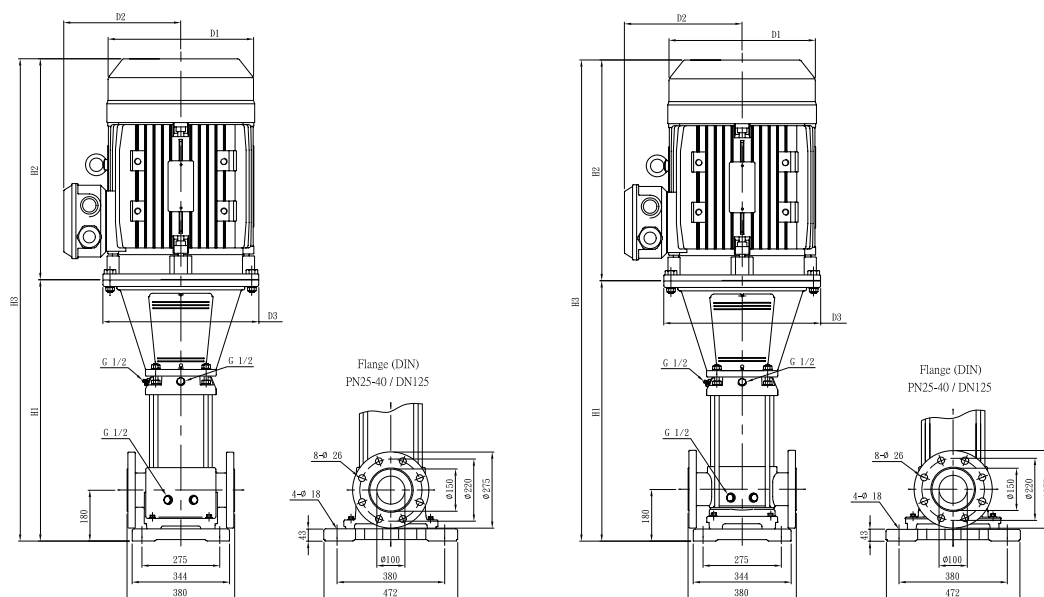
3500 rpm

60 Hz

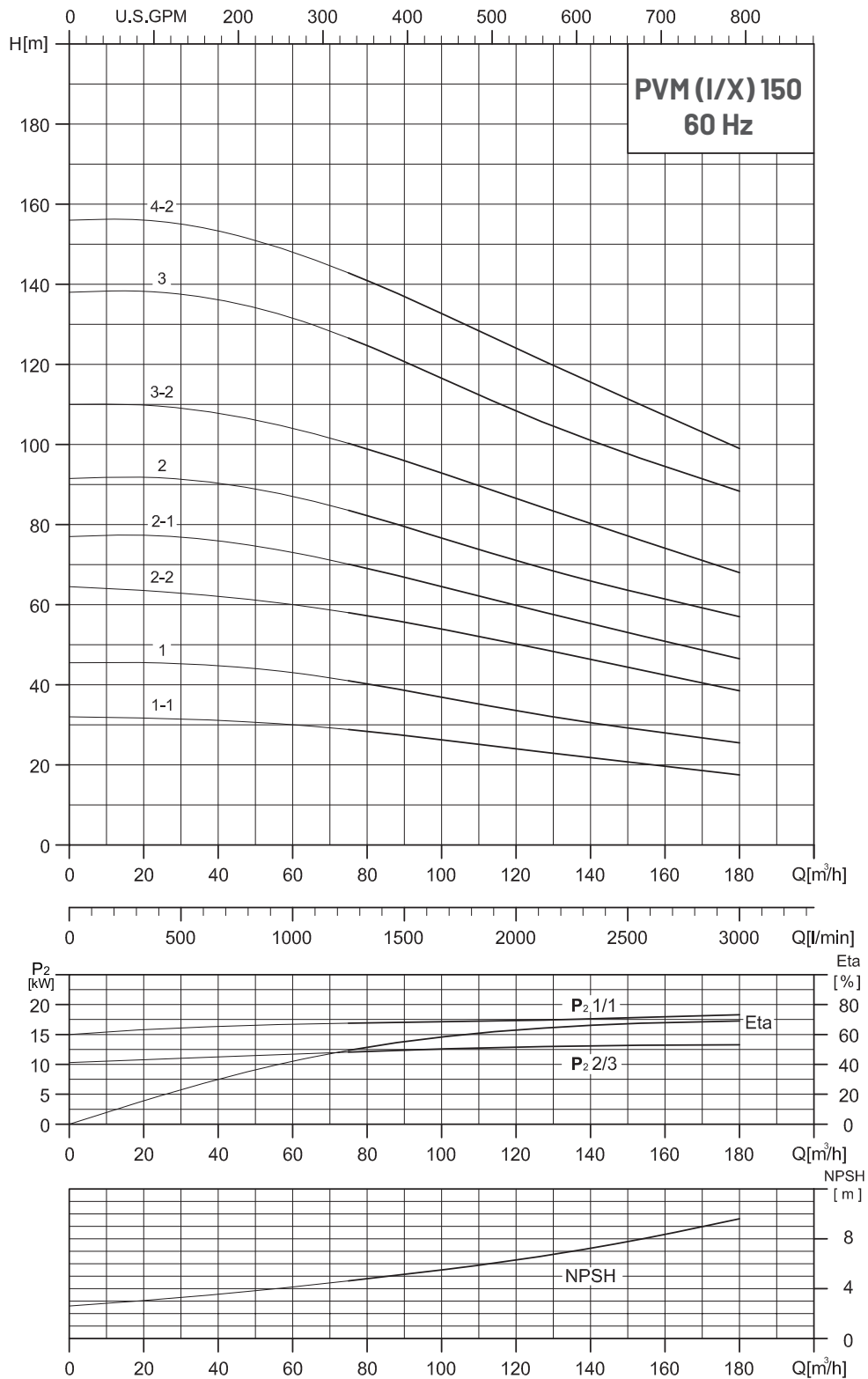
ISO 9906 - Annex A

MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

PUMP TYPE	MOTOR		PVM							PVMi - PVMX						
			DIMENSION [mm]					Net Weight [kg]	DIMENSION [mm]					Net Weight [kg]		
	P ₂		DIN Flange			D1	D2	D3	DIN Flange	DIN Flange			D1	D2	D3	DIN Flange
	[HP]	[KW]	H1	H2	H3					H1	H2	H3				
PVM 150-1-1	25	18,5	834,0	550	1384,0	318	245	350	235,0	837	550	1387	318	245	350	218,7
PVM 150-1	30	22	834,0	580	1414,0	358	265	350	277,8	837	580	1417	358	265	350	261,7
PVM 150-2-2	40	30	989,5	660	1649,5	420	295	400	352,4	992,5	660	1652,5	420	295	400	336,1
PVM 150-2-1	50	37	989,5	660	1649,5	420	295	400	365,4	993	660	1653	420	295	400	349,1
PVM 150-2	60	45	993,5	690	1683,5	470	325	450	423,5	997	690	1687	470	325	450	407,3
PVM 150-3-2	75	55	1175,0	770	1945,0	510	355	550	548,7	1178,0	770	1948,0	510	355	550	532,5
PVM 150-3	100	75	1175,0	845	2020,0	580	410	550	711,2	1178	845	2023	580	410	550	695,1
PVM 150-4-2	100	75	1330,5	845	2175,5	580	410	550	721,2	1333,5	845	2178,5	580	410	550	704,2



HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

PVM(I/X) 150

3500 rpm

60 Hz

ISO 9906 - Annex A

MEI ≥ 0.4 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts



Pentair Water Italy | Via Masaccio | 13 56010 Lugnano (PI) | ITALY | starite.it

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