

50Hz



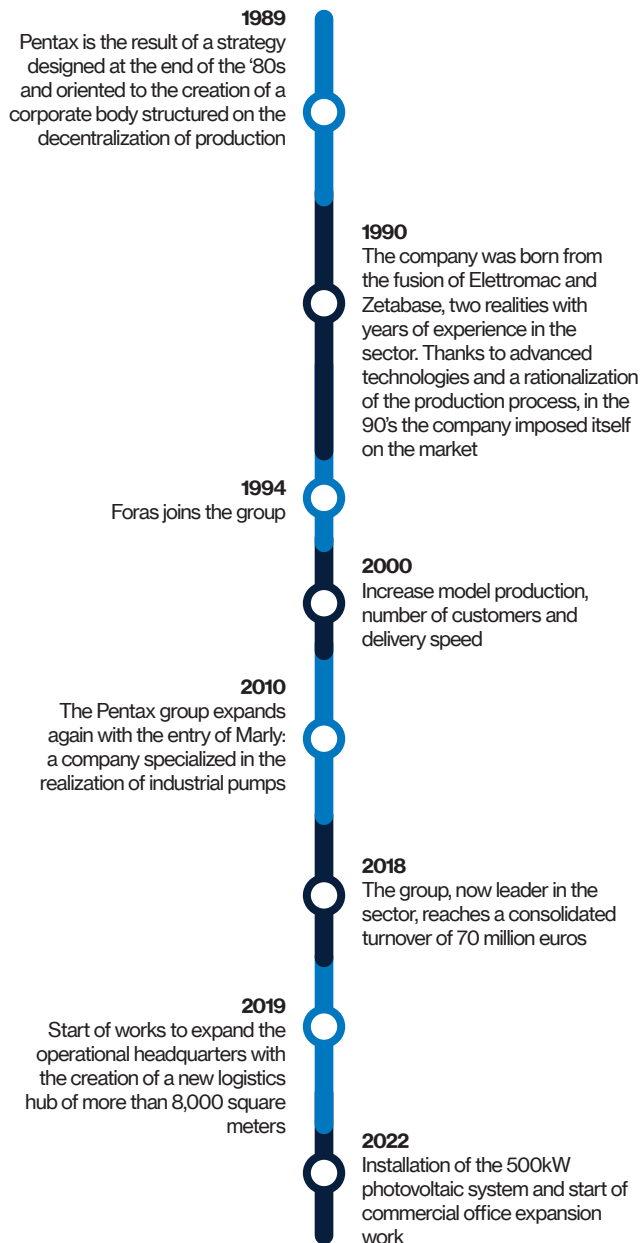
GENERAL CATALOGUE

www.pentax-pumps.it



HISTORY

For many years **Pentax** has held a large share of the world market for motorized pumps. The sales department is constantly working to better serve existing customers and to open up new markets. This is possible thanks to the wide range of products available which allows to cover most of the applications in the pump field. Special attention is also paid to market surveys, so that any new requirements can be immediately transferred to the research and development department: the best way to properly develop and forecast future scenarios.



MISSION

After more than **20 years of activity** we can finally trace the guidelines that have governed and directed the industrial development of **Pentax Industries SpA**. Actions and processes that have intersected with the obvious aim of creating value, benefits to be redistributed to the various components of the production and distribution process.

A rational allocation of available resources, together with a refined program of production decentralization have allowed the company to adapt to changing market conditions, each time with extreme rapidity.

Maximum attention to the markets, therefore, with the commitment to respond in real time to the specific needs of the different markets, paying particular attention to technological progress. All this in the perspective of a careful policy for **customer satisfaction**.



“Creating value is our main goal”

Gianluigi Pedrollo, Chair man

VALUES



Reliability

Choosing Pentax means choosing safety at every stage

Quality

Where there is control, there is reliability: the basis for success

Speed

Impeccable delivery time

Flexibility

Pentax studies each case thoroughly, identifies the best solution and then takes action with security

Variety

The best service: a wide range of Pentax products, one for every need



OFFICIAL JOURNAL OF THE EUROPEAN UNION

Regulation UE 547/2012

ANNEX II

«The benchmark for most efficient water pumps is $MEI \geq 0,70$ ».

«The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter».

«The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system».

Information on benchmark efficiency is available at:

www.europump.org/efficiencycharts.

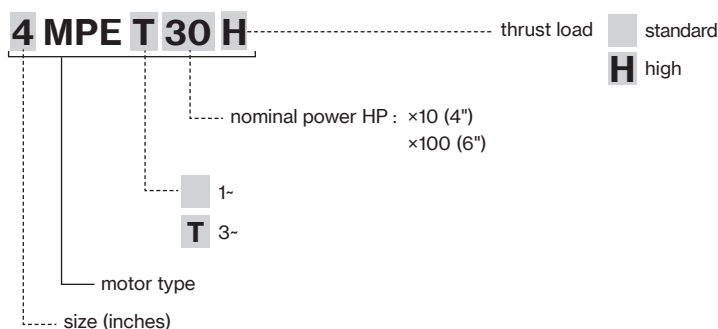


4MPE/6MPE

4" and 6" rewindable oil filled submersible motors characterized by high torque, strong mechanical structure, high reliability. Suitable for vertical and horizontal operations.

Construction features

Upper support	nickel plated cast iron
External jacket, shaft and cup	stainless steel
Mechanical seal	ceramic-graphite
Ball bearings	axial and radial oil lubricated
Number of startups/hr	max 30
Coolant	non-toxic dielectric lubricant
Cable	1,75 to 4 m according to motor size (3 wires + ground)
Shaft extension and coupling	NEMA standard
Voltage	1~ 220/230V - 50Hz 3~ 380/415V - 50Hz
Insulation class	F
Protection degree	IP68
Max liquid temperature	35° C
Max depth immersion	150 m



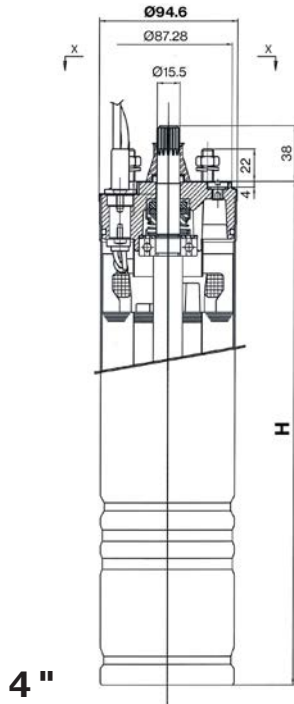
4MPE



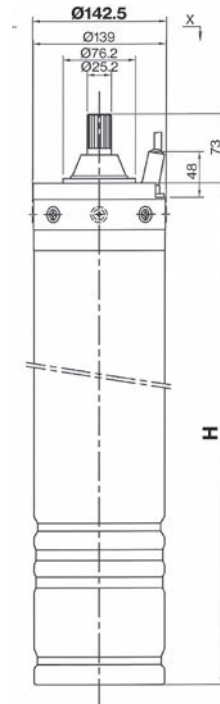
6MPE



4MPE/6MPE



4 "




6 "

TYPE 1- 230V	Power		Axial load N	I _N A	I _{START}	C µF	Efficiency %	Cos φ	T _s / T _N	H mm	Kg	CABLE	
	HP	kW										Lenght m	Size mm ²
4MPE 5	0,5	0,37	1500	3,4/3,6	10,8	20	53	0,94	1	325	7	1,75	1,5
4MPE 7	0,75	0,55		4,2/4,5	13,9	25	60	0,92	0,87	325	7,6		
4MPE10	1	0,75		5,6/6	18,5	35	62	0,92	0,7	350	8,7		
4MPE15	1,5	1,1		7,8/8,2	23	40	66	0,92	0,5	385	10,3		
4MPE20	2	1,5		10,8/11	38,7	50	68	0,88	0,55	420	12		
4MPE30	3	2,2		14,6/14,8	43,5	70	69	0,94	0,48	470	14,2		
4MPE30H	3	2,2	7500	14,6/14,8	43,5	70	69	0,94	0,48	520	15,5	2,5	

TYPE 3- 400V	Power		Axial load N	I _N A	I _{START}	Efficiency %	Cos φ	T _s / T _N	H mm	Kg	CABLE	
	HP	kW									Lenght m	Size mm ²
4MPET 5	0,5	0,37	1500	1,3/1,6	6,2	60	0,72	2,9	325	6,5	1,75	1,5
4MPET 7	0,75	0,55		1,9/2	8,5	62	0,71	3,1	325	7		
4MPET 10	1	0,75		2,4/2,6	10,9	66	0,71	3,1	325	7,6		
4MPET 15	1,5	1,1		3,2/3,4	14	73	0,7	3,2	350	8,7		
4MPET 20	2	1,5		4,4/4,6	17	73	0,7	3,1	385	10,4		
4MPET 30	3	2,2		5,8/6,2	25	75	0,78	3,1	420	12		
4MPET 30H	3	2,2	7500	5,8/6,2	25	75	0,78	3,1	470	14,2	2,5	1,5
4MPET 40	4	3	2500	7,6/7,8	35	74	0,81	2,8	418	12,8		
4MPET 42	4	3	5000	7,6/7,8	34	74	0,81	2,8	418	13,1		
4MPET 42H	4	3	7500	7,9/8	34	77	0,75	3	550	19		
4MPET 55	5,5	4	2500	9,8/9,9	49	76	0,82	3	468	15,3		
4MPET 57	5,5	4	5000	9,8/9,9	49	76	0,82	3	468	15,6		
4MPET 57H	5,5	4	7500	10/10,2	51	76	0,79	3,2	580	20,5	3	1,5
4MPET 75	7,5	5,5	2500	13,5/13,8	57	78	0,85	3	538	18,6		
4MPET 77	7,5	5,5	5000	13,5/13,8	57	78	0,85	3	538	18,9		
4MPET 77H	7,5	5,5	7500	14,5/14,7	58	76	0,72	3,1	650	22,4	4	2
4MPET 100H	10	7,5	7500	19/19,5	77	79	0,8	3,2	810	27		



TYPE 3- 400V	Power		Axial load	I _N	I _{START}	Efficiency	Cos φ	T _s / T _N	H	 Kg	CABLE	
	HP	kW									N	A
							m	mm ²				
6MPET 55	5,5	4	10000	8,8	45	76	0,82	2,4	540	32	2,8	4
6MPET 75	7,5	5,5		12,5	64	78	0,82	3	570	40		
6MPET 100	10	7,5		16,9	78	77	0,82	2,5	600	42		
6MPET 125	12,5	9,2		21,5	95	80	0,81	2,4	600	45		
6MPET 150	15	11		23,7	121	83	0,83	2,4	700	48		
6MPET 175	17,5	12,8		27,8	145	82	0,84	2,4	700	50		
6MPET 200	20	15		30,4	160	82	0,85	2,5	760	54		
6MPET 250	25	18,5		38,3	225	82	0,85	2,1	830	65		
6MPET 300	30	22		44	250	83	0,86	2	890	70		
6MPET 400	40	30	20000	62	330	86	0,86	2	1030	90	8	
6MPET 500	50	37		72	400	86	0,87	2	1170	101		

TYPE 1-	Power		PROTECTION	CONTROL PANEL
	HP	kW		
4MPE 5	0,5	0,37	PML 5/20-4	EQSM + 20µF
4MPE 7	0,75	0,55	PML 7/25-6	EQSM + 25µF
4MPE 10	1	0,75	PML 10/35-7	EQSM + 35µF
4MPE 15	1,5	1	PML 15/40-10	EQSM + 40µF
4MPE 20	2	1,5	PML 20/50-13	EQSM + 50µF
4MPE 30	3	2,2	PML 30/80-18	EQSM + 80µF

TYPE 3-	Power		PROTECTION	CONTROL PANEL
	HP	kW		
4MPET 5	0,5	0,37	PT 7/1,3-2,1	EQSMT 10
4MPET 7	0,75	0,55	PT 7/1,3-2,1	EQSMT 10
4MPET 10	1	0,75	PT 10/1,9-3	EQSMT 10
4MPET 15	1,5	1	PT 15-20/2,9-4,5	EQSMT 10
4MPET 20	2	1,5	PT 20/30-40/4,3-6,8	EQSMT 10
4MPET 30	3	2,2	PT 20/30-40/4,3-6,8	EQSMT 10
4MPET 40	4	3	PT 40-50/5,7-9,1	EQSMT 10
4MPET 55	5,5	4	PT 55-75/8,6-13,5	EQSMT 10
4MPET 75	7,5	5,5	PT 100/12,5-16,5	EQSMT 10
4MPET 100	10	7,5	PT 125-150/16-21	EQSMT 15

TYPE	Power		PROTECTION	CONTROL PANEL	CONTROL PANEL star-delta starting 400/690 V
	HP	kW			
6MPET 55	5,4	4	PT 55-75/8,6-13,5	EQSMT 10	QST 5
6MPET 75	7,5	5,5	PT 100/12,5-16,5	EQSMT 10	QST 7
6MPET 100	10	7,5	PT 125-150/16-21	EQSMT 10	QST 10
6MPET 125	12,5	9,2	PT 200/22-29	EQSMT 15	QST 15
6MPET 150	15	11	PT 200/22-29	EQSMT 15	QST 15
6MPET 175	17,5	13	-	EQSMT 20	QST 20
6MPET 200	20	15	-	EQSMT 20	QST 20
6MPET 250	25	18,5	-	-	QST 30
6MPET 300	30	22	-	-	QST 30
6MPET 400	40	30	-	-	QST 50
6MPET 500	50	37	-	-	QST 60

