

4" monoblock submersible pumps

NEW



4BLOCK[®]

**FLOATING IMPELLERS
PATENTED SYSTEM**

MADE IN ITALY

 **PEDROLLO[®]**
the spring of life

 **ECO
FRIENDLY**

4BLOCK®

 Domestic use

 Civil use

 Uso agricolo

 Clean water
(Maximum sand content
200 g/m³)

NEW



- **Stainless steel borehole pumps ready for installation c/w capacitor and built-in thermal overload motor-protector.**
- **Patented hydraulic system with free floating impeller system regardless of any sand content.**
- **Efficiency increased to top amongst similar pumps (+12% compared to previous serie) and energy consumption significantly reduced.**
- **Our hydraulics have a MEI factor (minimum efficiency index) largely overcoming ErP requirements.**
- **Non-return valve built-in.**
- **Increased performances on all the working curve.**
- **Max sand content 200 g/m³.**

INSTALLATION AND USE

Suitable for pumping clean water from wells.

Because of their high efficiency, reliability and easy installation, these pumps are suitable for domestic applications, for water supply as part of a pressure supply by booster set, for irrigation, etc...

PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m³/h)
- Head up to **140 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **200 g/m³**
- Maximum immersion depth of **60 m** with a sufficiently long power cable
- Vertical and horizontal installation
- Starts/hour: **30** at regular intervals
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3

EU REGULATION N. 547/2012

PATENTS - TRADE MARKS - MODELS

- European Patents n. EP3123031, EP2419642

OPTIONS AVAILABLE ON REQUEST

- **30 metres** long power cable
- Other voltages or 60 Hz frequency

WARRANTY

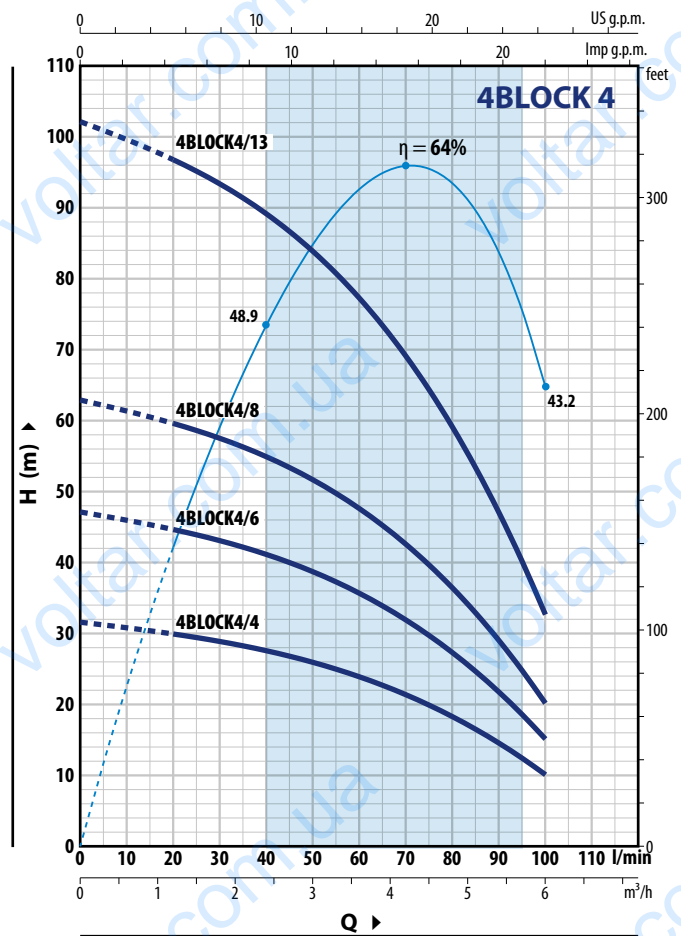
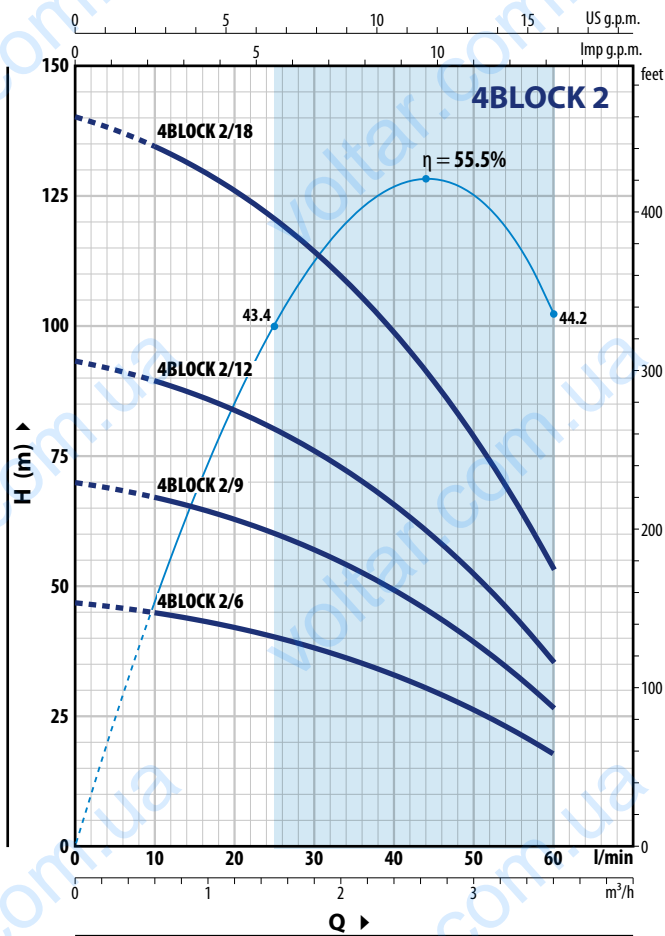
2 years according to our general conditions of sale

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =



4BLOCK® 4" monoblock submersible pumps

CHARACTERISTIC CURVES AND PERFORMANCE DATA 50 Hz n= 2900 min⁻¹



4BLOCK 2

MODEL	POWER (P ₂)		Q	H metres						
	kW	HP		0	0.6	1.2	1.8	2.4	3.0	3.6
Single-phase			0	0	10	20	30	40	50	60
4BLOCKm 2/6	0.37	0.50	l/min	47	45	42	38	33	26.3	18
4BLOCKm 2/9	0.55	0.75		70	67.5	63	57	49.5	39.5	26.5
4BLOCKm 2/12	0.75	1		94	90	84	76	66	52.5	35.5
4BLOCKm 2/18	1.1	1.5		140	135	126	114	99	79	53.5

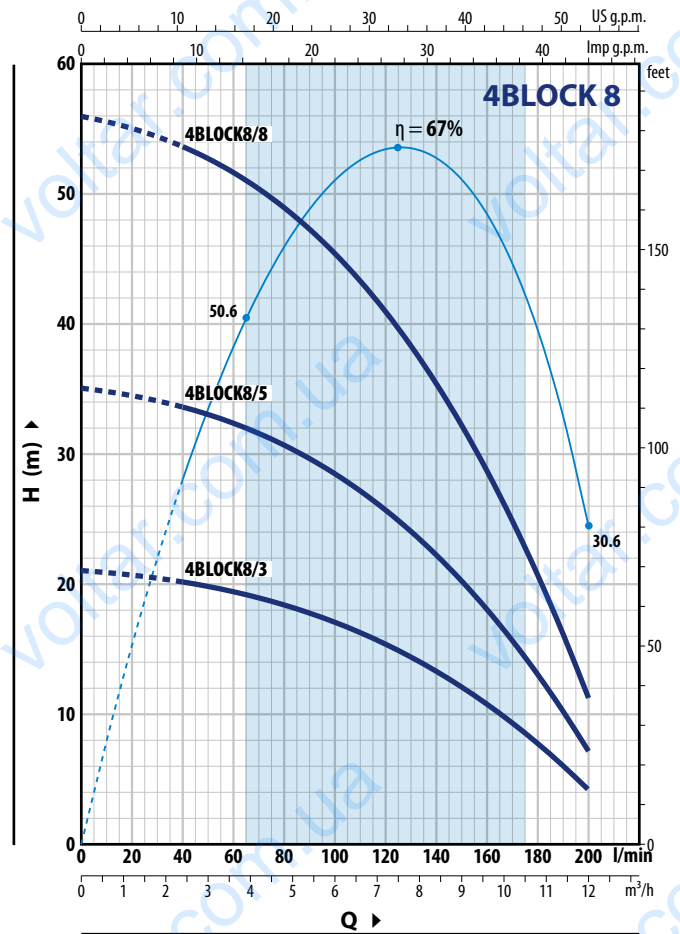
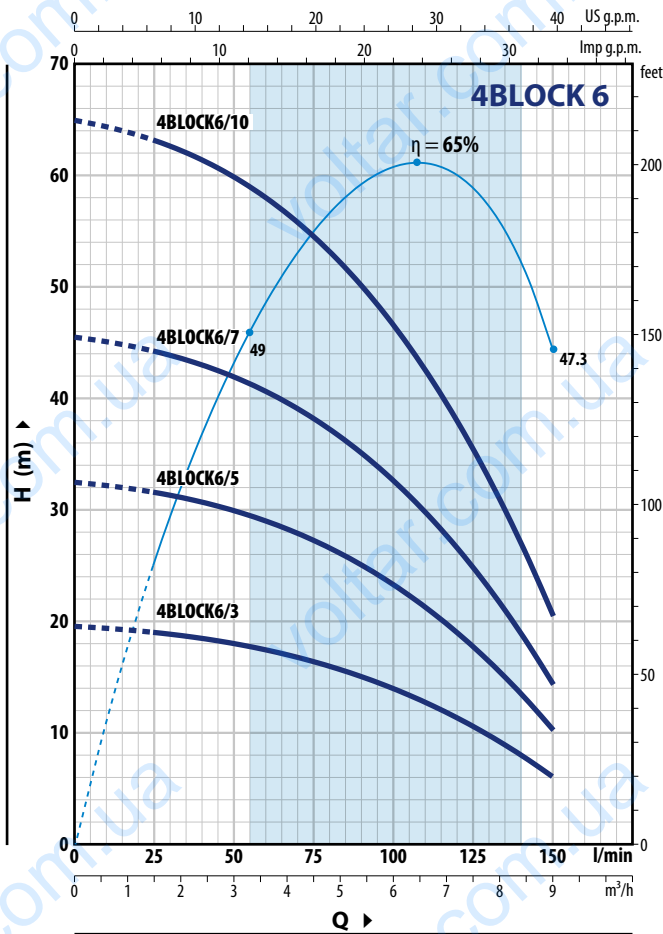
4BLOCK 4

MODEL	POWER (P ₂)		Q	H metres						
	kW	HP		0	1.2	1.5	2.4	3.6	4.5	6.0
Single-phase			l/min	0	20	25	40	60	75	100
4BLOCKm 4/4	0.37	0.50		31.5	30	29.5	27.5	23.8	19.8	10
4BLOCKm 4/6	0.55	0.75		47	44.5	44	41	35.5	29.5	15
4BLOCKm 4/8	0.75	1		63	59.5	58.5	55	47.5	39.5	20
4BLOCKm 4/13	1.1	1.5		102	97	95	89	77	64.5	32.5

Q = Flow rate H = Total manometer head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA 50 Hz n= 2900 min⁻¹



4BLOCK 6

MODEL	POWER (P ₂)		Q	H metres									
	kW	HP		m ³ /h	l/min	0	1.5	2.4	3.6	4.5	6.0	7.5	9.0
Single-phase				0	25	40	60	75	100	125	150		
4BLOCKm 6/3	0.37	0.50			19.5	19	18.4	17.4	16.4	14	10.6	6	
4BLOCKm 6/5	0.55	0.75			32.5	31.5	30.5	29	27.5	23.3	17.7	10	
4BLOCKm 6/7	0.75	1			45.5	44	43	40.5	38	32.5	24.8	14.5	
4BLOCKm 6/10	1.1	1.5			65	63	61.5	58	54.5	46.5	35.5	20.5	

4BLOCK 8

MODEL	POWER (P ₂)		Q	H metres									
	kW	HP		m ³ /h	l/min	0	2.4	3.6	4.5	6.0	7.5	9.0	10.5
Single-phase				0	40	60	75	100	125	150	175	200	
4BLOCKm 8/3	0.55	0.75			21	20	19.4	18.7	17.1	14.9	12.1	8.6	4
4BLOCKm 8/5	0.75	1			35	33.5	32.5	31	28.5	24.8	20.2	14.3	7
4BLOCKm 8/8	1.1	1.5			56	53.5	51.5	50	45.5	39.5	32.5	22.9	11.5

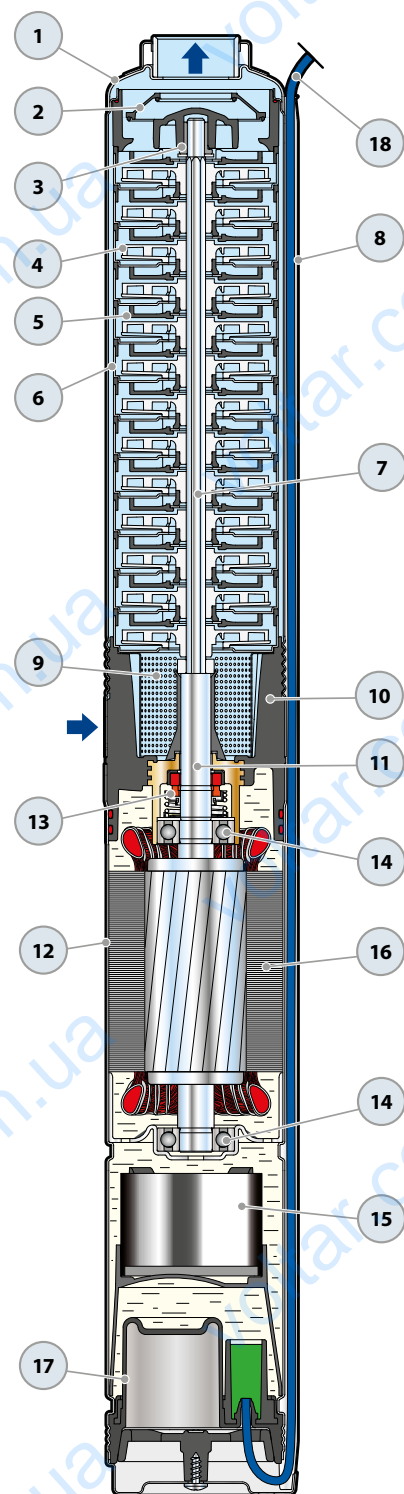
Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

4BLOCK® 4" monoblock submersible pumps

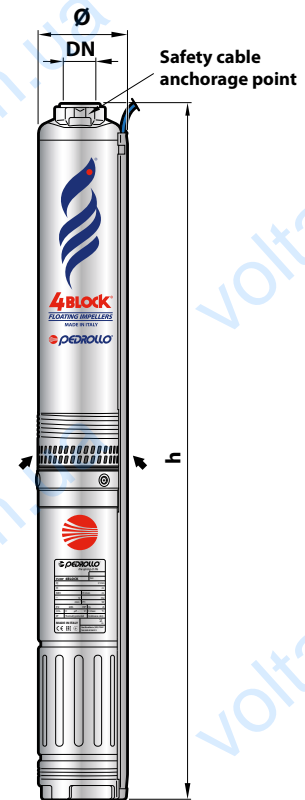
POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	DELIVERY BODY AND EXTERNAL SLEEVE	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1.				
2	FOOT VALVE	Noryl				
3	PUMP BEARING	Fixed part in EPDM				
4	IMPELLERS	Delrin made				
5	DIFFUSERS	Noryl made				
6	STAGE CASING	Stainless steel AISI 304				
7	PUMP SHAFT	Stainless steel AISI 304				
8	CABLE COVER	Stainless steel AISI 304				
9	FILTER	Stainless steel AISI 304				
10	MOTOR BRACKET	Tecnopolymer & brass				
11	ROTOR SHAFT	Stainless steel AISI 431				
12	MOTOR SLEEVE	Stainless steel AISI 304				
13	MECHANICAL SEAL					
	<i>Seal</i>	<i>Shaft</i>				
	<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Materials</i>	<i>Elastomer</i>
	ST1-16	Ø 16 mm	Ceramic	Graphite		NBR
14	BEARINGS	6203 / 6203				
15	CAPACITOR					
	<i>Pump</i>	<i>Capacitance</i>				
	<i>Single-phase</i>	<i>(230 V o 240 V)</i>				
	4BLOCK – 0.37 kW	20 µF - 450 VL				
	4BLOCK – 0.55 kW	20 µF - 450 VL				
	4BLOCK – 0.75 kW	35 µF - 450 VL				
	4BLOCK – 1.1 kW	35 µF - 450 VL				
	ELECTRIC MOTOR					
		Submersible PEDROLLO motor, suitable for continuous duty, rewindable in oil bath (non-toxic oil for food use).				
16	4BLOCKm:	single-phase 230 V - 50 Hz Motor with built-in capacitor. Thermal overload protector incorporated into the winding.				
		– Insulation: class F – Protection: IP X8				
17	MEMBRANE BALANCER					
	POWER CABLE					
18	DRINCABLE® HRC type approved for use in drinking water by "ACS" in compliance with XP P 41-250, approval n. 18 MAT NY 156					
	Standard length 20 metres					



DIMENSIONS AND WEIGHT

MODEL	PORT DN	DIMENSIONS mm			kg 1~
		N.STAGES	Ø	h	
4BLOCKm 2/6	1 1/4"	6	100	597	11.2
4BLOCKm 2/9		9		657	12.4
4BLOCKm 2/12		12		737	13.5
4BLOCKm 2/18		18		907	17.2
4BLOCKm 4/4		4		577	10.8
4BLOCKm 4/6		6		627	11.8
4BLOCKm 4/8		8		697	12.8
4BLOCKm 4/13		13		872	16.6
4BLOCKm 6/3		3		572	10.6
4BLOCKm 6/5		5		635	11.8
4BLOCKm 6/7		7		718	13.1
4BLOCKm 6/10		10		862	16.4
4BLOCKm 8/3		3		572	10.6
4BLOCKm 8/5		5		655	12.5
4BLOCKm 8/8		8		799	15.4



ABSORPTION

MODEL	VOLTAGE	
	230 V	240 V
Single-phase	230 V	240 V
4BLOCKm - 0.37 kW	3.2 A	3.1 A
4BLOCKm - 0.55 kW	4.0 A	3.8 A
4BLOCKm - 0.75 kW	6.0 A	5.8 A
4BLOCKm - 1.1 kW	8.0 A	7.7 A

PALLETIZATION

MODEL	GROUPAGE
Single-phase	n. pumps
4BLOCKm 2/6	55
4BLOCKm 2/9	55
4BLOCKm 2/12	55
4BLOCKm 2/18	55
4BLOCKm 4/4	55
4BLOCKm 4/6	55
4BLOCKm 4/8	55
4BLOCKm 4/13	55
4BLOCKm 6/3	55
4BLOCKm 6/5	55
4BLOCKm 6/7	55
4BLOCKm 6/10	55
4BLOCKm 8/3	55
4BLOCKm 8/5	55
4BLOCKm 8/8	55

STANDARD INSTALLATION

