

NEW

PEDROLLO[®]
... the spring of life



NK-VL-VLE

Submerged monoblock multi-impeller pumps

PERFORMANCE RANGE

NK 2 - VL 2 - VLE 2

Flow rate up to **80 l/min** (4.8 m³/h) - Head up to **90 m**

NK 4 - VL 4 - VLE 4

Flow rate up to **120 l/min** (7.2 m³/h) - Head up to **105 m**

LIMITS OF USE

NK

Liquid temperature up to **+40°C**

Maximum sand content **50 g/m³**

Submersion depth: up to **20 m** below water level

Use with **EASYPRESS®**.

VL - VLE

Manometric suction lift up to **7 m**

Liquid temperature up to **+ 40°C**

Use with **EASYPRESS®**.

CONSTRUCTION AND SAFETY STANDARDS

EN 60 335-1

EN 60034-1

IEC 335-1

IEC 34-1

CEI 61-150

CEI 2-3



INSTALLATION AND USE

NK: Thanks to their high efficiency and reliability, these pumps are recommended for pumping clear water in the domestic, civil, and agricultural sectors, including water distribution as part of a pressure set, garden irrigation and pressure boosting.

VL-VLE: They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made.

Thanks to their reliability, silence and high efficiency, these pumps are widely used in the domestic and civil sectors, in particular in poorly ventilated installations, in limited or closed spaces, in areas subject to splashes and on delicate surfaces (e.g. parquet, carpets, etc) as any eventual water losses from the mechanical seal remain within the pump.

TWO-YEAR WARRANTY in accordance with our General Terms of Sale.

CONSTRUCTION CHARACTERISTICS

- **OUTER CASE AND MOTOR SUPPORT:** AISI 304 stainless steel.
- **IMPELLERS AND DIFFUSERS:** technopolymer.
- **DIAPHRAGMS:** AISI 304 stainless steel, complete with anti-wear rings.
- **MOTOR SHAFT:** EN 10088-3 - 1.4104 stainless steel.
- **DOUBLE MECHANICAL SEAL:**
silicon carbide - ceramic - NBR on the pump side;
ceramic - graphite - NBR on the motor side (with oil barrier chamber for the lubrication and cooling of the sealing surfaces in the event of dry running).
- **SCREWS AND FILTER:** AISI 304 stainless steel.
- **MOTOR:** submersible asynchronous electric motor for continuous duty.
NKm - VLm - VLEm: single phase 220÷240 V - 50 Hz with thermal overload protector built into the windings.
NK - VL - VLE: three-phase 380÷415 V - 50 Hz.
- **INSULATION:** class F.
- **PROTECTION:** IP 68.

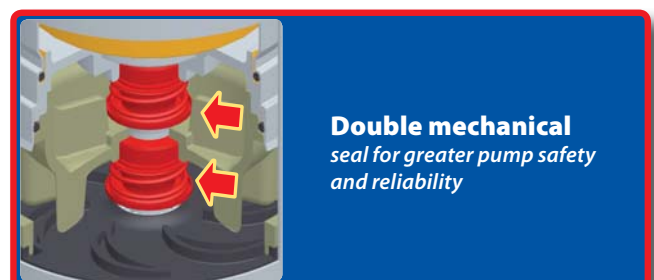
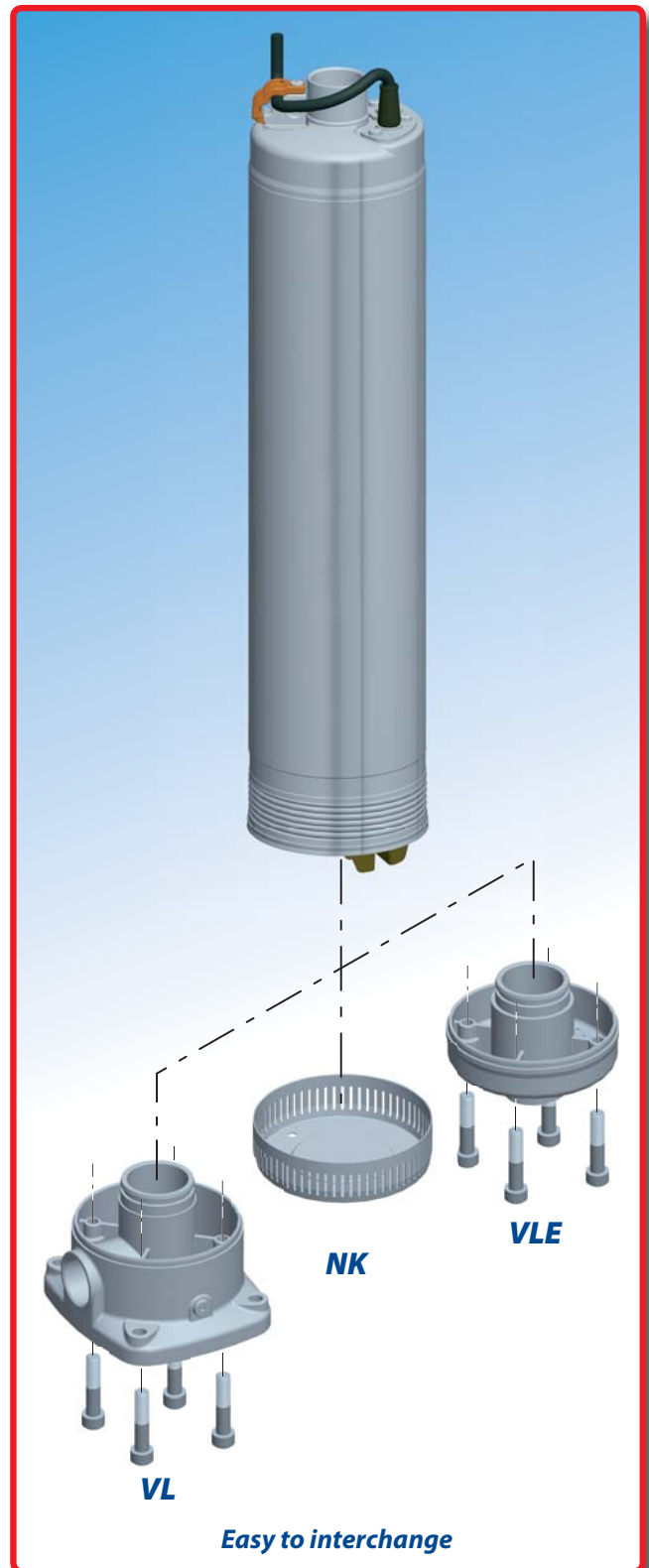
STANDARD FEATURES:

NK: 20 m submersible power cable certified for drinking water.

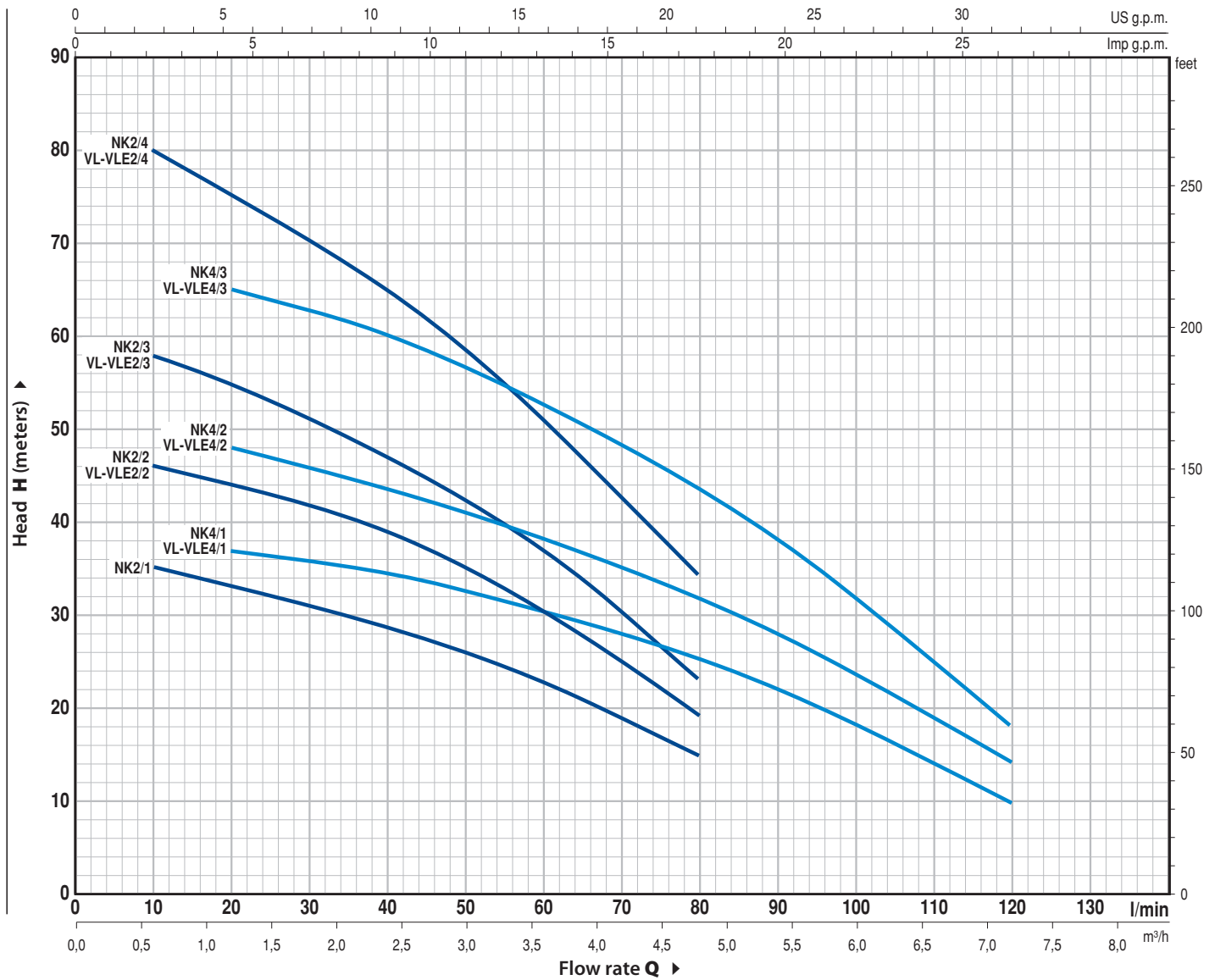
VL - VLE: 2 m power cable type "H07 RN-F" .

OPTIONS AVAILABLE ON REQUEST

- ⇒ Single-phase pumps with external float switch (only NKm...- GE).
- ⇒ Other voltages or 60 Hz frequency.



CURVES AND PERFORMANCE DATA AT n= 2900 1/min

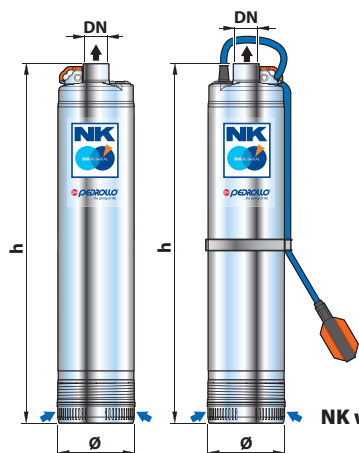


TYPE				POWER		Q m ³ /h l/min	H meters													
Single-phase		Three-phase		kW	HP		0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	
NK	VL-VLE	NK	VL-VLE			0	10	20	30	40	50	60	70	80	90	100	110	120		
m 2/1	—	—	—	0.45	0.6	36	35	33	31	28.5	26	23	19	15	—	—	—	—		
m 2/2	m 2/2	—	—	0.55	0.75	48	46	44	41.5	39	35	30	25	19	—	—	—	—		
m 2/3	m 2/3	2/3	2/3	0.75	1	60	58	55	51	47	42	36	30	23	—	—	—	—		
m 2/4	m 2/4	2/4	2/4	1.1	1.5	84	80	75	70	65	59	51	42.5	34	—	—	—	—		
m 4/1	m 4/1	—	—	0.55	0.75	40	—	37	36	34.5	32.5	30	28	25	21.5	18.5	14.5	10		
m 4/2	m 4/2	4/2	4/2	0.75	1	50	—	48	46	44	41	38	35	32	28	24	19	14		
m 4/3	m 4/3	4/3	4/3	1.1	1.5	67	—	65	62.5	60	56.5	52	48	44	38	32	25	18		

Q = Flow rate H = Total manometric head

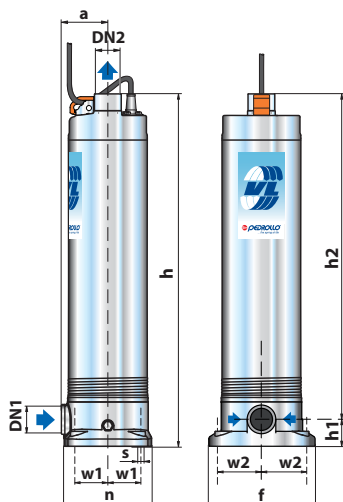
Performance curve tolerance values as per EN ISO 9906 App. A.

DIMENSIONS AND WEIGHTS



NK with float switch

TYPE		PORT DN	N° stages	DIMENSIONS mm		kg	
Single-phase	Three-phase			Ø	h	1~	3~
NKm 2/1	—	1 1/4"	3	135	495	14.4	—
NKm 2/2	—		4		519	14.8	—
NKm 2/3	—		5		573	16.7	—
—	NK 2/3				543	—	15.2
NKm 2/4	NK 2/4		7		621	18.6	17.5
NKm 4/1	—		4		519	14.8	—
NKm 4/2	—		5		573	16.7	—
—	NK 4/2				543	—	15.2
NKm 4/3	NK 4/3		7		621	18.6	17.5



TYPE		PORT		N° stages	DIMENSIONS mm		kg	
Single-phase	Three-phase	DN1	DN2		Ø	h	1~	3~
VLEm 2/2	—	1 1/4"	1 1/4"	4	135	546	16.5	—
VLEm 2/3	—			5		600	18.4	—
—	VLE 2/3					570	—	16.9
VLEm 2/4	VLE 2/4			7		648	20.3	19.2
VLEm 4/1	—			4		546	16.5	—
VLEm 4/2	—			5		600	18.4	—
—	VLE 4/2					570	—	16.9
VLEm 4/3	VLE 4/3			7		648	20.3	19.2



TYPE		PORT		N° stages	DIMENSIONS mm								kg						
Single-phase	Three-phase	DN1	DN2		a	f	h	h1	h2	n	w1	w2	s	1~	3~				
VLm 2/2	—	1 1/4"	1 1/4"	4	74	166	45	565	146	52.5	62.5	11	18.5	—					
VLm 2/3	—														5	618	573	20.4	—
—	VL 2/3															588	543	—	18.9
VLm 2/4	VL 2/4														7	665	621	22.3	21.2
VLm 4/1	—														4	565	519	18.5	—
VLm 4/2	—														5	618	573	20.4	—
—	VL 4/2															588	543	—	18.9
VLm 4/3	VL 4/3														7	665	621	22.3	21.2

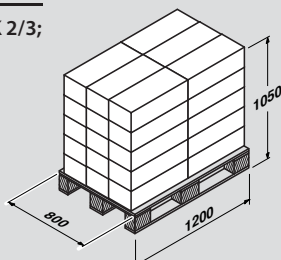
PALLET

TYPE

NKm 2/1; NKm 2/2; NK 2/3;
NKm 4/1; NK 4/2;

VLEm 2/2;
VLEm 4/1

30 units

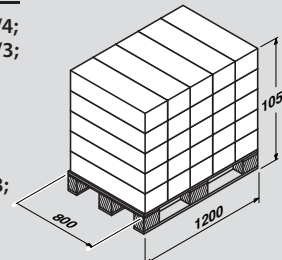


TYPE

NKm 2/3; NKm 2/4; NK 2/4;
NKm 4/2; NKm 4/3; NK 4/3;

VLEm 2/3; VLE 2/3;
VLEm 2/4; VLE 2/4;
VLEm 4/2; VLE 4/2;
VLEm 4/3; VLE 4/3;
VLm 2/2; VLm 2/3; VL 2/3;
VLm 2/4; VL 2/4;
VLm 4/1; VLm 4/2;
VL 4/2; VLm 4/3; VL 4/3

25 units



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