

# V L

## vertical monoblock multistage pumps

**Compact, extremely quiet, high output,  
low consumption pumps for domestic  
use.**



### PERFORMANCE RANGE

Flow rate up to 120 l/min (7.2 m<sup>3</sup>/h)  
Dynamic head up to 105 m

### OPERATING LIMITS

Suction lift up to 7 m  
Fluid temperature up to + 40°C

### CONSTRUCTION AND SAFETY STANDARDS:

EN 60 335-1	EN 60034-1
IEC 335-1	IEC 34-1
CEI 61-150	CEI 2-3

### PUMP INSTALLATION AND APPLICATIONS

These pumps are suitable for pumping clean water and fluids which are not chemically aggressive to the pump components.

**THEY ARE EXTREMELY RELIABLE, SIMPLE TO USE AND QUIET FINDING MANY USES IN DOMESTIC APPLICATIONS, IN PARTICULAR FOR INSTALLATIONS WITHOUT PROPER VENTILATION, IN LIMITED SPACES AND SUBJECT TO WATER JETS, ETC.**

### WARRANTY: 2 YEARS

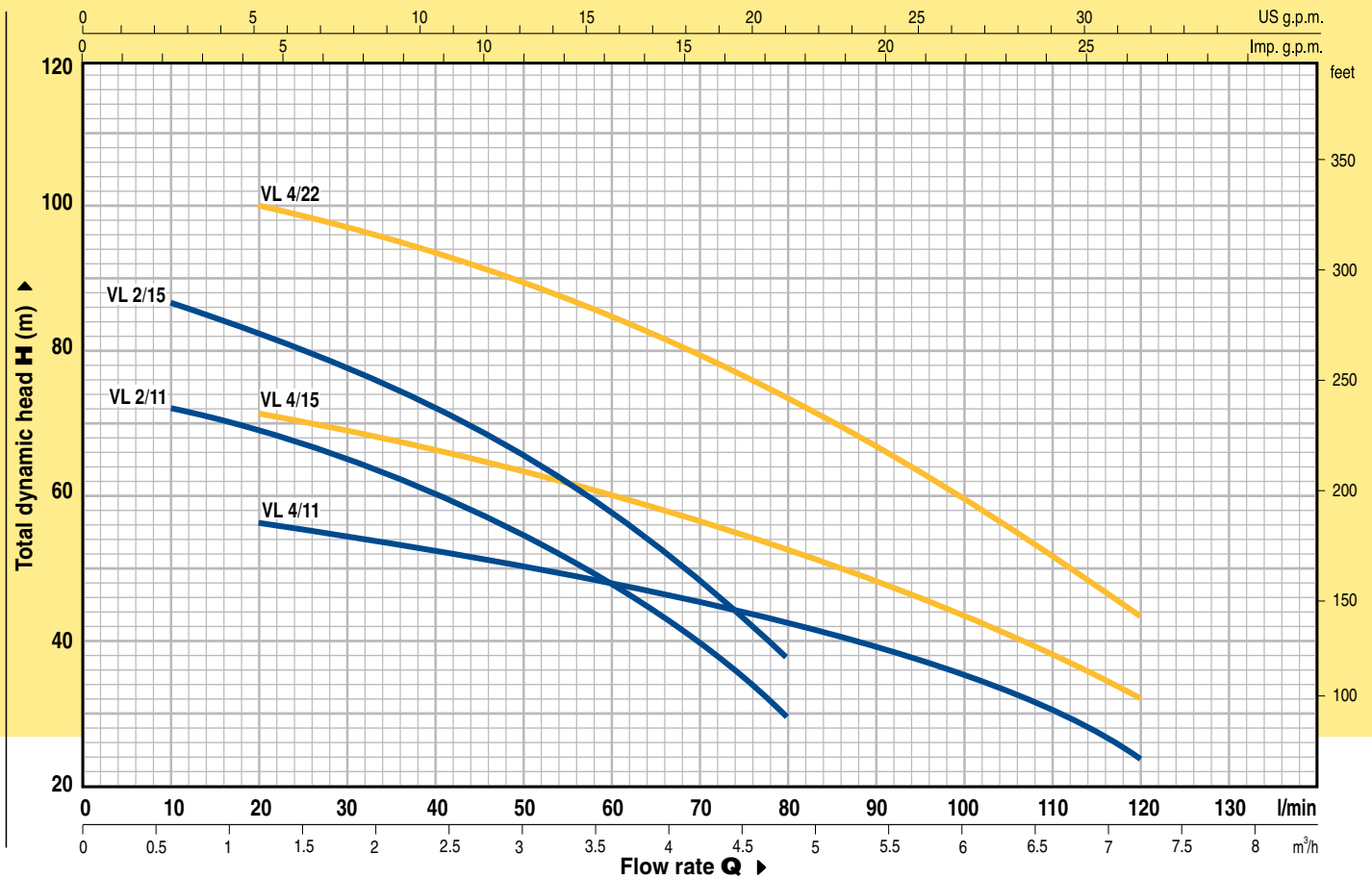
(according to our general sales conditions).

### STRUCTURAL CHARACTERISTICS

- **EXTERNAL SLEEVE:**  
AISI 304 stainless steel, with UNI ISO 228/1 gas threaded suction and delivery openings.
- **IMPELLERS AND DIFFUSERS:**  
Noryl® "General Electric" technopolymer.
- **DIAPHRAGM:**  
AISI 304 stainless steel, complete with anti-wear rings.
- **MOTOR SLEEVE:**  
AISI 304 stainless steel.
- **MOTOR SHAFT:**  
AISI 430F stainless steel.
- **MOTOR BRACKETS:**  
brass.
- **DOUBLE MECHANICAL SEAL:**  
silicon carbide/silicon carbide on the pump side and sealing ring on the motor side (with barrier oil chamber to lubricate and cool the sealing surfaces in the absence of water).
- **BOLTS & SCREWS:**  
AISI 304 stainless steel.
- **MOTOR:**  
completely removable and rewindable enclosed induction MOTOR, suitable for continuous duty. **The thermal cutout relay (motor protector)** is incorporated in single phase motors up to 1.5 kW. Cooling of motor assured by the pumped liquid. INSULATION class F (provides the motor with a considerable overload tolerance and substantially increases the service life of the motor itself).
- **PROTECTION:**  
IP 68.
- **SUPPLY CABLE:**  
two meters "H07 RN-F" neoprene cable, with **removable connector**.
- **CONTROL BOX:**  
with capacitor and SHUKO plug on single phase versions.  
Protection IP 64.



### PERFORMANCE CHART AT n= 2900 1/min

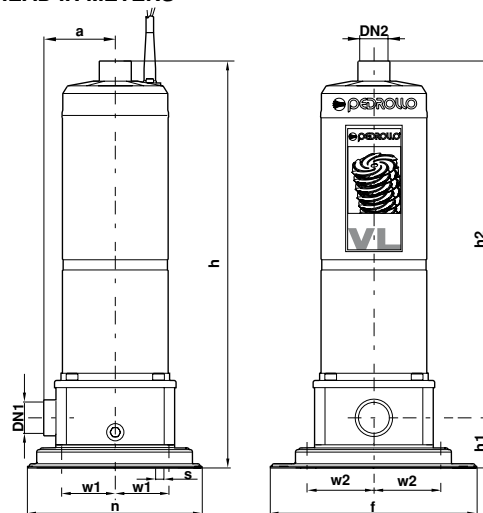


### PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL		POWER		Q m³/h l/min	H (m)																
Single phase	Three phase	kW	HP		0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2				
				0	10	20	30	40	50	60	70	80	90	100	110	120					
VLm 2/11	VL 2/11	1.1	1.5	75	72	70	66	61	55	48	40	30									
VLm 2/15	VL 2/15	1.5	2	90	87	83	78	73	66	58	48	38									
VLm 4/11	VL 4/11	1.1	1.5	60	58	56	54	52	50	48	46	43	39	36	31	24					
VLm 4/15	VL 4/15	1.5	2	75	74	72	69	66	64	60	57	53	48	43	38	32					
VLm 4/22	VL 4/22	2.2	3	105	103	101	98	94	90	86	80	75	67	60	52	44					

Q = FLOW RATE H = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



### DIMENSIONS

PUMP MODEL		DIMENSIONS mm										
Single phase	Three phase	DN1	DN2	a	f	h	h1	h2	n	W1	w2	s
VLm 2/11	VL 2/11	1 1/2"	1 1/4"	100	223	603	60	543	183	62	88.5	11
VLm 2/15	VL 2/15	1 1/2"	1 1/4"	100	223	633	60	573	183	62	88.5	11
VLm 4/11	VL 4/11	1 1/2"	1 1/4"	100	223	573	60	513	183	62	88.5	11
VLm 4/15	VL 4/15	1 1/2"	1 1/4"	100	223	603	60	543	183	62	88.5	11
VLm 4/22	VL 4/22	1 1/2"	1 1/4"	100	223	708	60	648	183	62	88.5	11