

SUMO 4

monoblock submersible pumps

SUMO is born from a careful mechanical fluid dynamics design, the best synthesis of performance, reliability, rugged construction and simple maintenance



PERFORMANCE RANGE

Flow rate up to 120 l/min (7.2 m³/h)
Dynamic head up to 105 m

OPERATING LIMITS

Maximum fluid temperature +40°C
Maximum sand content 50 g/m³
Maximum operating depth 20 m below water level
Maximum emptying level 90 mm from the bottom

CONSTRUCTION AND SAFETY STANDARDS:

EN 60 335-1
IEC 335-1
CEI 61-150

EN 60034-1
IEC 34-1
CEI 2-3



PUMP INSTALLATION AND APPLICATIONS

THESE PUMPS ARE SUITABLE FOR PUMPING CLEAN WATER OR FLUIDS WITH A SAND CONTENT OF NOT MORE THAN 50 g/m³. THEIR HIGH PERFORMANCE AND DEPENDABILITY MAKE THEM SUITABLE FOR USE IN DOMESTIC, CIVIL AND INDUSTRIAL FIELDS, FOR THE AUTOMATIC DISTRIBUTION OF WATER WORKING IN CONJUNCTION WITH SURGE TANKS, FOR GARDENING, FOR WASHING AND PRESSURE-BOOSTING SYSTEMS, ETC.

The pump can be installed either vertically or horizontally; when installed vertically in a well, it is advisable to secure the pump by using a stainless steel or nylon cable connected to the special eyebolt provided on the discharge head.

WARRANTY: 1 YEAR

(according to our general sales conditions).

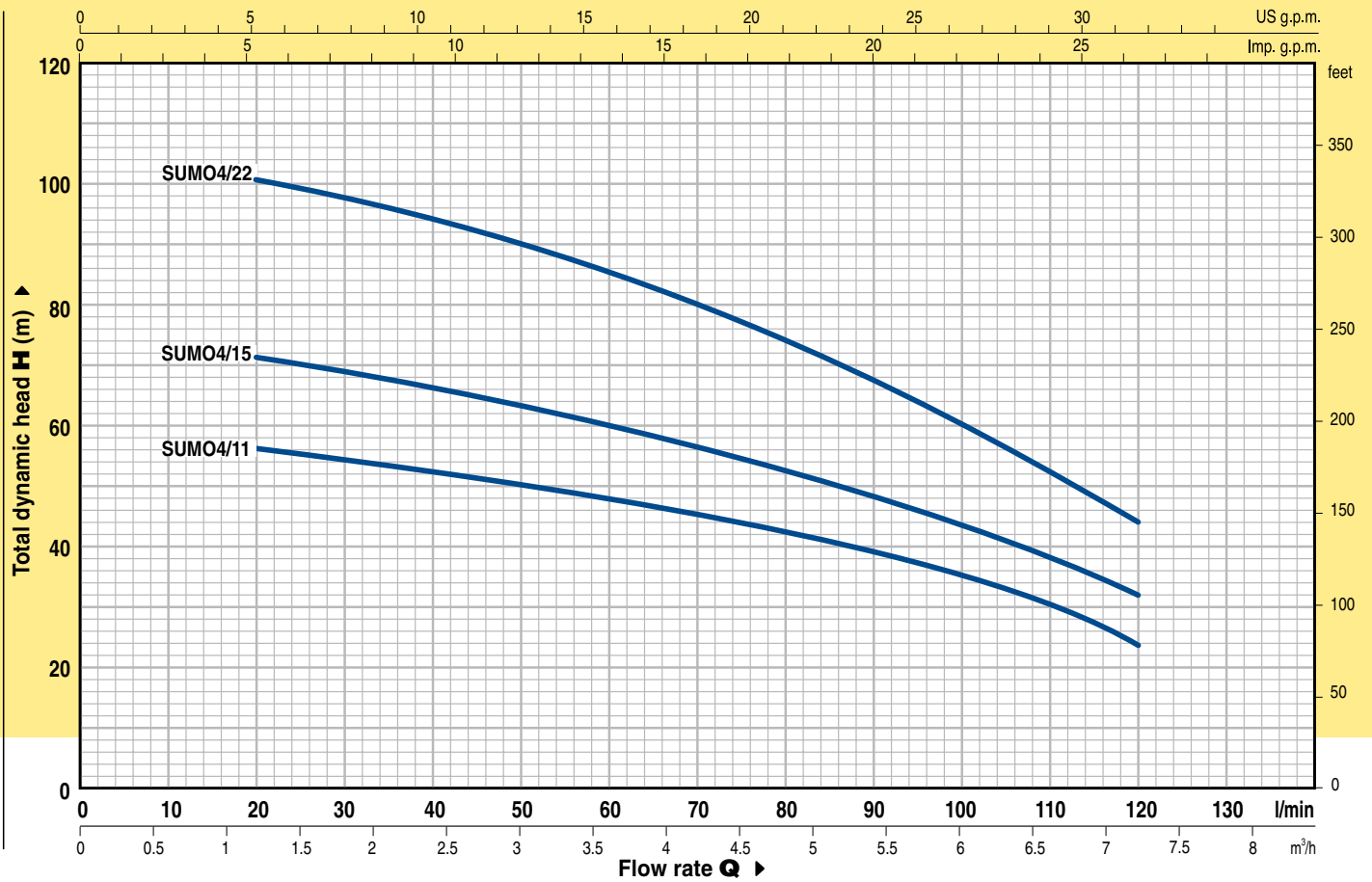
STRUCTURAL CHARACTERISTICS

- **EXTERNAL SLEEVE:** AISI 304 stainless steel, with 1 1/4" gas thread delivery opening UNI ISO 228/1.
- **IMPELLERS AND DIFFUSERS:** Noryl® "General Electric" technopolymer.
- **DIAPHRAGMS:** stainless steel AISI 304, 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 AND FILTERS:** AISI 304 stainless steel.
- **MOTOR:** Completely removable and rewindable enclosed induction MOTOR, suitable for continuous duty. **The thermal cutout relay (motor protector) is incorporated (up to 1.5 kW) in single phase motors.**
- **PROTECTION:** IP 68.
- **SUPPLY CABLE:** 20 meters "H07 RN-F" submersible with **removable connector.**
- **CONTROL BOX:** with capacitor and schuko plug in single phase motors. Protection IP64.
- **EXTERNAL FLOAT SWITCH:** if requested for single phase motors.

SPECIAL FEATURES ON REQUEST:

- ⇒ External float switch (for single phase versions).
- ⇒ Control box for three phase versions.

PERFORMANCE CHART AT n= 2900 1/min

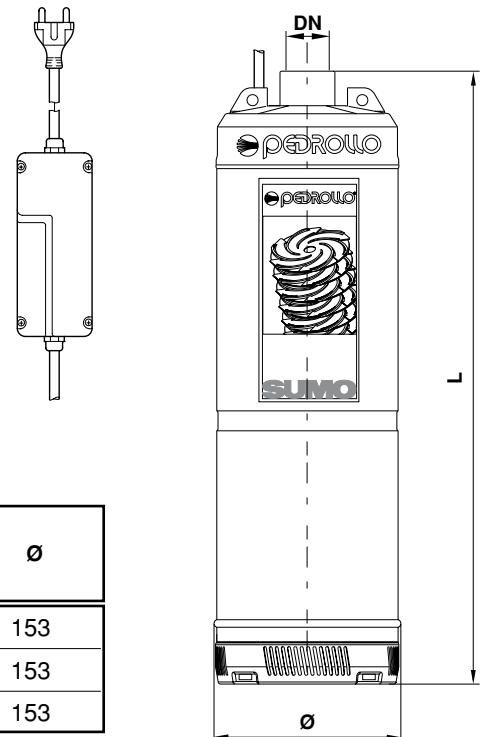


PERFORMANCE DATA AT n= 2900 1/min

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

Q = FLOW RATE H = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL	DN	Stage N°	DIMENSIONS mm		Ø
			Single phase	Three phase	
SUMO 4/11	1 1/4"	4	515	515	153
SUMO 4/15	1 1/4"	5	545	545	153
SUMO 4/22	1 1/4"	7	650	650	153