

SUMO 2

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 80 l/min (4.8 m³/h)
Dynamic head up to 90 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 (75 mm up to 0.75 kW)

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).

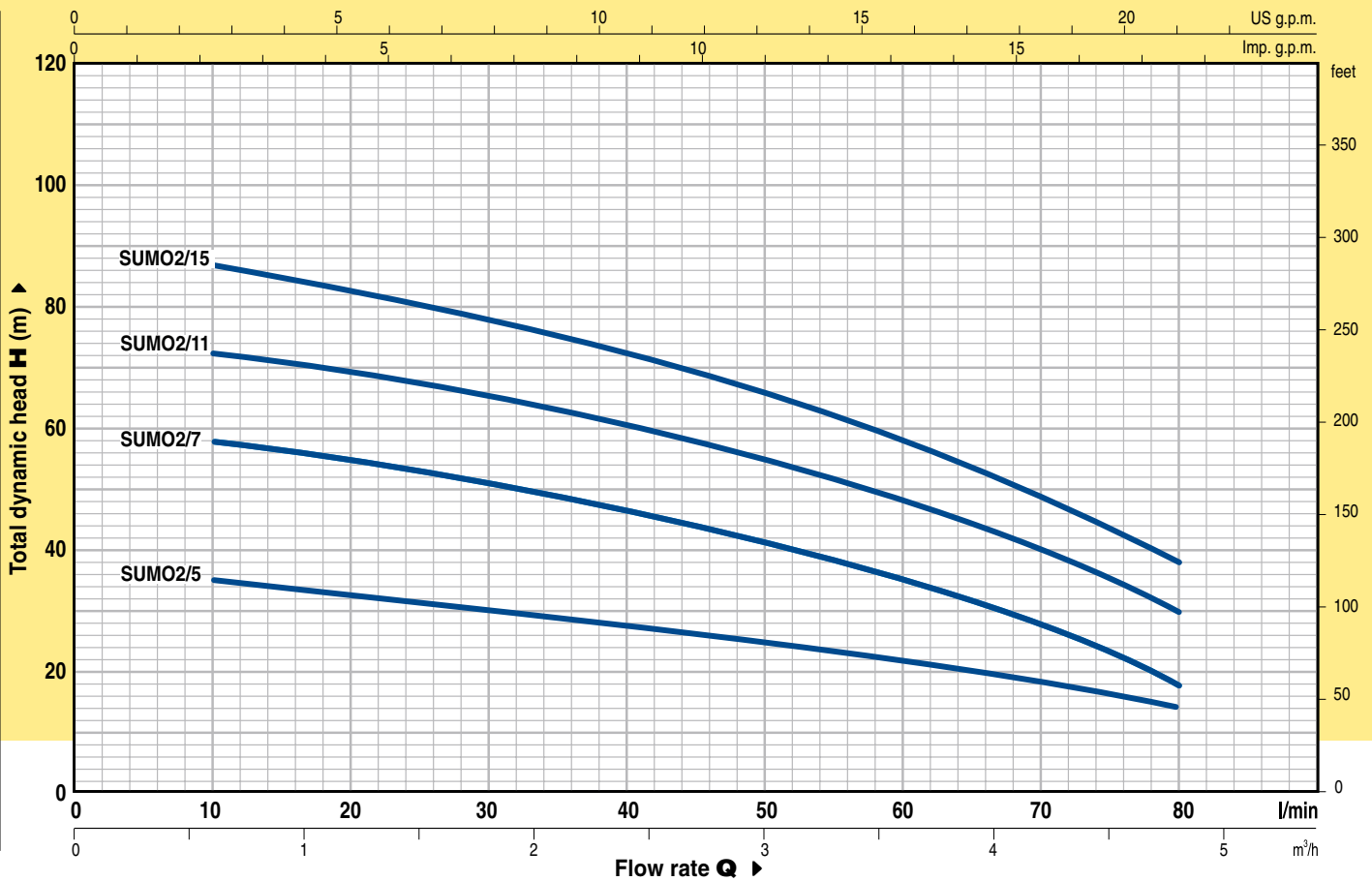
STRUCTURAL CHARACTERISTICS

- **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:** AISI 304 stainless steel, complete with anti-wear rings.
- **MOTOR SLEEVE:** AISI 304 stainless steel.
- **MOTOR SHAFT:** AISI 430F stainless steel (AISI 416 up to 0,75 kW).
- **MOTOR BRACKETS:** brass.
- **DOUBLE MECHANICAL SEAL:** silicon carbide/silicon carbide (graphite and alumina up to 0,75 kW) 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 FILTER:** 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.**
- **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 IP 64
- **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

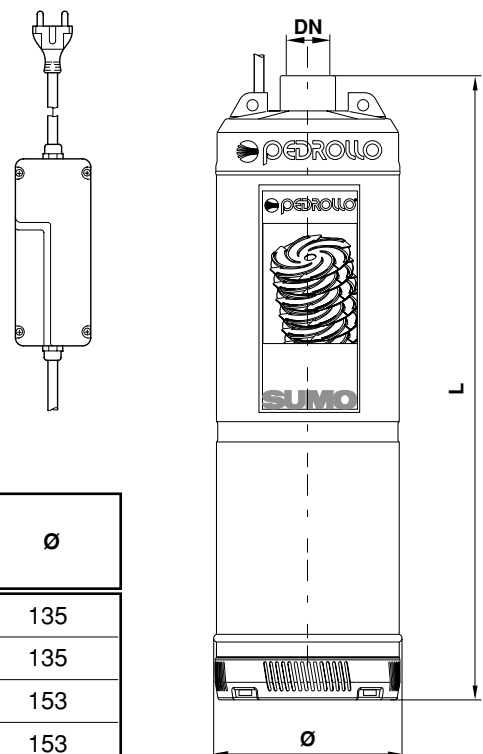


PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL		POWER		Q m³/h l/min	H (m)															
Single phase	Three phase	kW	HP		0	0.6	1.2	1.8	2.4	2.7	3	3.3	3.6	3.9	4.2	4.5	4.8			
					0	10	20	30	40	45	50	55	60	65	70	75	80			
SUMOm 2/5	SUMO 2/5	0.45	0.6	H (m)	36	35	33	31	28	26	25	23	22	20	18	16	14			
SUMOm 2/7	SUMO 2/7	0.75	1		60	58	55	51	47	44	42	38	36	32	28	23	18			
SUMOm 2/11	SUMO 2/11	1.1	1.5		75	72	70	66	61	58	55	52	48	44	40	35	30			
SUMOm 2/15	SUMO 2/15	1.5	2		90	87	83	78	73	70	66	62	58	53	48	44	38			

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 2/5	1 1/4"	3	377	377	135
SUMO 2/7	1 1/4"	5	475	475	135
SUMO 2/11	1 1/4"	5	545	545	153
SUMO 2/15	1 1/4"	6	575	575	153