



Construction

Self-draining, single-impeller pumps, with motor insulated from pumped water, constructed with high quality, corrosion-proof plastic materials, with chrome-nickel stainless steel diffuser.

Compact design (158 mm wide).

PVC pipe connections:

Ports for cementing joint, with external thread for union coupling.

Applications

For spas, hydromassage bathtubs and whirlpool baths.

Operating conditions

Water temperature up to 60 °C.

Room temperature up to 40 °C.

Maximum permissible pressure in the pump casing: 2.5 bar.

Continuous duty.

Motor

2-pole induction motor, 60 Hz (n = 3450 rpm).

SPA: three-phase 220/380 V.

SPAM: single-phase 220, with thermal protector.

Capacitor inside the terminal box.

Insulation class F.

Protection IP X5.

Classification scheme IE2 for three-phase motors from 0,75 kW.

Constructed in accordance with: EN 60034-1; EN 60034-30.

EN 60335-1, EN 60335-2-41.

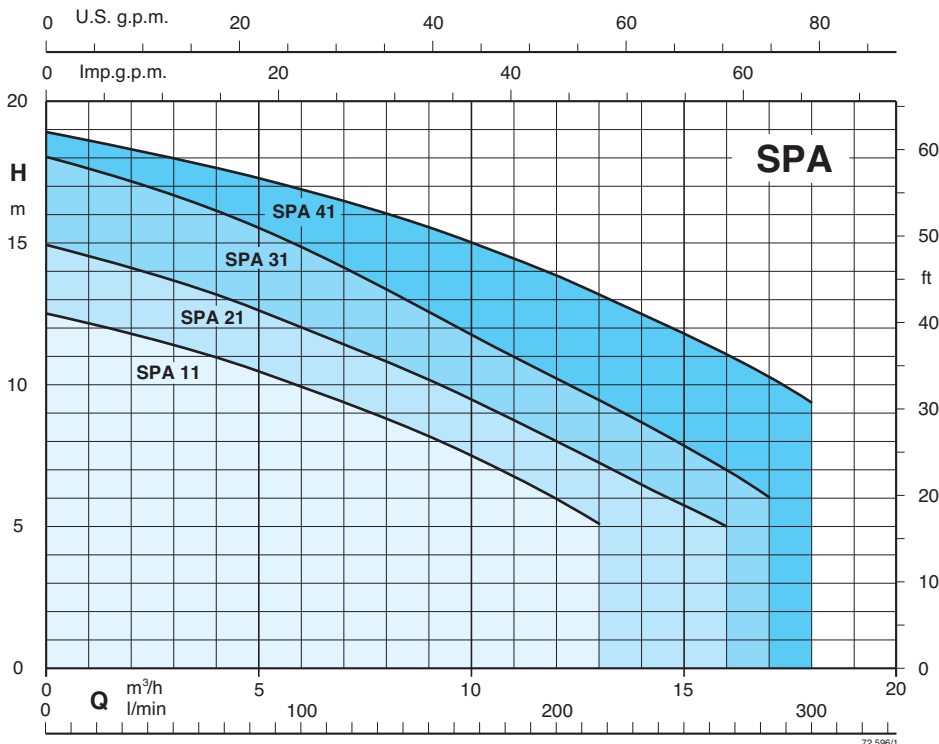
Patents: EP 0 460 597
US 5 226 790

Materials

Component	Material
Pump casing Union coupling	ABS (Acrylonitrile-Butadiene-Styrene)
Diffuser cover Impeller	Glass reinforced thermoplastic: PPO-GF30, NORYL*
Diffuser-wall with wear-ring	Cr-Ni-Mo stainless steel 1.4401 EN 10088 (AISI 316)
Mechanical seal	Ceramic alumina, Carbon, FPM

* Trademark of General Electric

Coverage chart n = 3450 rpm



Performance $n \approx 3450$ rpm

	3~ 220 V 380 V			1~ 220 V		P ₂		Q										
	A	A	IA/IN	A	IA/IN	kW	HP		m ³ /h	3	6	9	12	13	16	17	18	
SPA 11-60	3,1	1,8	4,8	SPAM 11-60	4,1	2,7	0,45	0,6	H	50	100	150	200	216	266	283	300	
SPA 21-60/A	3,6	2,1	3,7	SPAM 21-60/A	5,2	3,1	0,55	0,75		11	10	8	6	5				
SPA 31-60/A	4,5	2,6	6,8	SPAM 31-60/A	6,9	3,1	0,75	1		13	12	10	8	7	5			
SPA 41-60	5,7	3,3	5,5	SPAM 41-60	8,5	3	1,1	1,5		16,5	15	12,5	10	9	7	6		
										18	17	15,5	14	13,5	11	10,5	9,5	

IA/IN = D.O.L. starting current / Rated current

P₂ Rated motor power output.

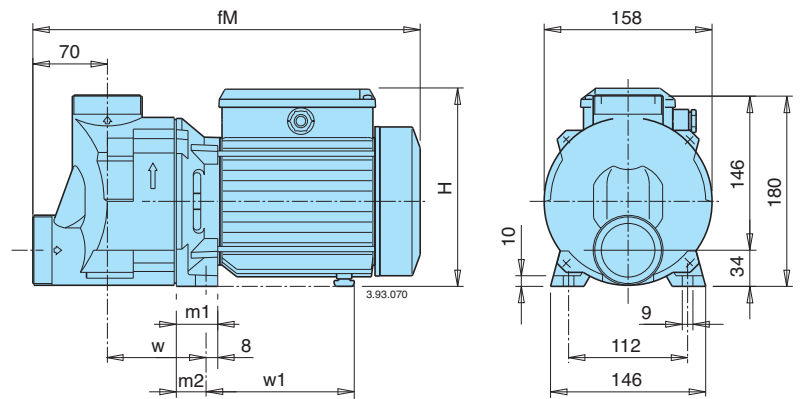
H Total head in m.

Tolerances according to UNI EN ISO 9906:2012.

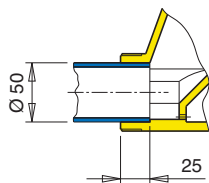
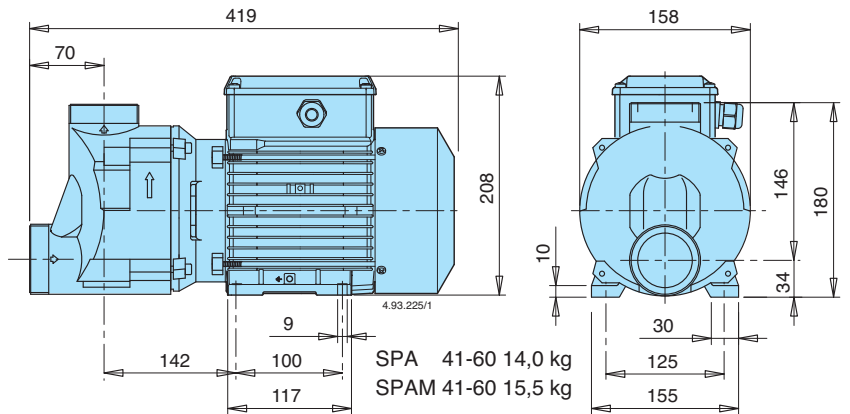
Dimensions and weights

SPA 11-60, 21-60/A, 31-60/A

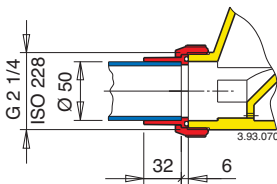
TYPE	mm						kg	
	fM	H	m1	m2	w1	w	SPA	SPAM
SPA 11-60	339	176	34	26	122	97	6,7	6,8
SPA 21-60/A	371	191	39	31	136	102	8	9
SPA 31-60/A	371	191	39	31	136	102	9	10



SPA 41-60

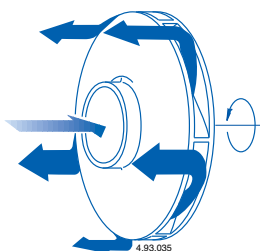


Cemented joint.



Threaded union coupling.

Diffuser with peripheral-longitudinal flow, of stainless steel for **extra reliability**.



Mechanical seal without contact with the shaft, for **extra safety**.

