

## Immersion pumps

## Type SP 12- 18



### Usages:

The pumps are suitable to transfer liquids containing impurities measuring up to 2-3 mm.

The hydraulic components, namely the impeller and scroll in PBT and the cast iron pump body allow the pumps to be used with water, emulsions and oily substances in general with a maximum viscosity of 3° Engler (21 CST).

The temperature of the liquid must not exceed 70° C.

### They are usually used on:

- **Machine tools** (milling machines – lathes - drills)
- **Surface treatment systems**
- **Filtration systems**

They should usually be installed on a tank, with a capacity in proportion to the flow rate, at about 3 – 4 cm. from the bottom. It is important to check that the maximum level of the liquid in the tank always remains 3 – 4 cm. lower than the flange (see figure).

In cases where the liquid is particularly dirty, the user is recommended to construct the tank in compartments to allow the dirt to deposit before it is stirred up by the pump.

### For other usages you are advised to consult our technical office

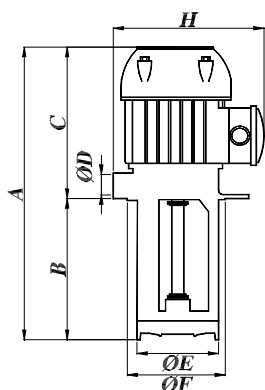


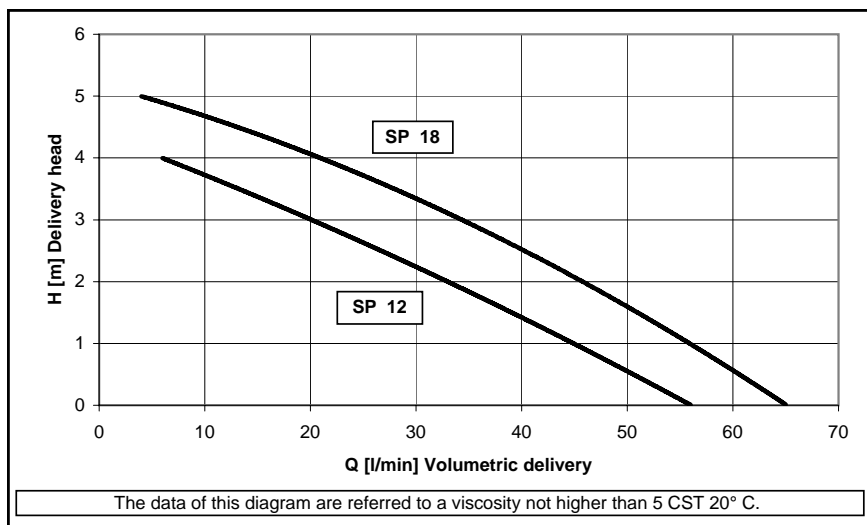
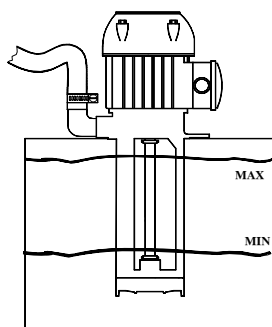
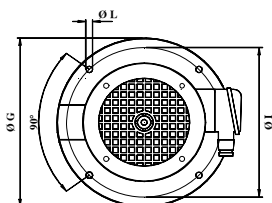
Table of dimensions and weights

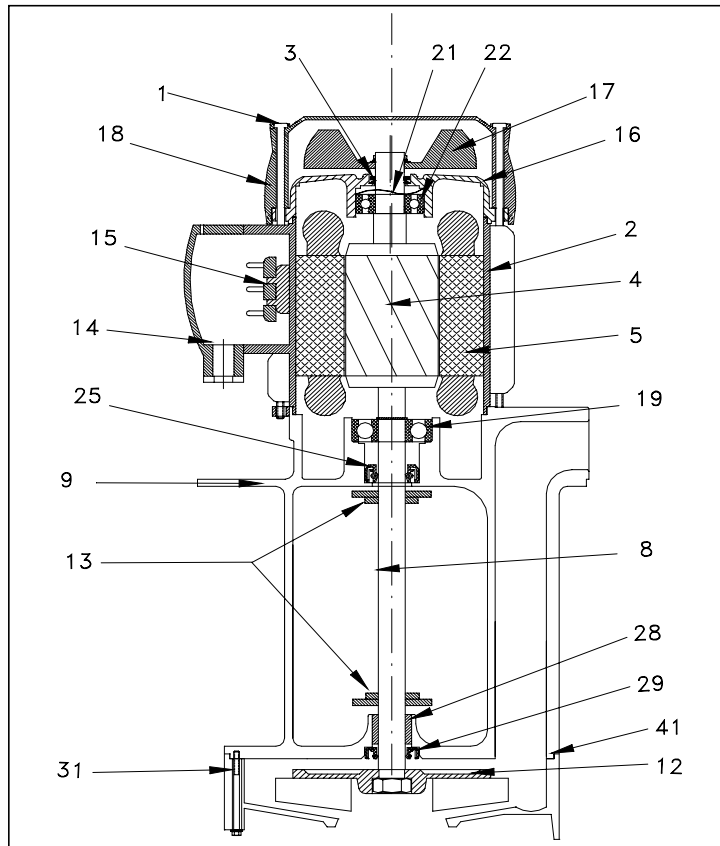
TYPE	A mm	B mm	C mm	ØD mm	ØE mm	ØF mm	ØG mm	H mm	ØI mm	ØL mm	Kg.
SP 12	255	90 T	165	3/4"	98	100	130	151	115	7 N. 4	5,02
	285	120 T									5,31
	335	170 T									5,51
	385	220 T									5,69
	435	270 T									5,97
	515	350									6,53
SP 18	255	90 T	165	3/4"	98	100	130	151	115	7 N. 4	5,07
	285	120 T									5,36
	335	170 T									5,56
	385	220 T									5,74
	435	270 T									6,02
	515	350									6,58

On request: T = execution TRI

### Electrical features

TYPE	KW. Input	Hz. 50		Hz. 60			
		230/400	254-290/440-500	230/400	208-230/440-460	254-277/440-480	318-346/550-600
SP 12	0,15	0,55/0,32	0,53/0,30	0,84/0,50	0,57/0,33	0,55/0,32	0,55/0,32
SP 18	0,16	0,9/0,55	0,7/0,4	1,1/0,64	0,98/0,57	0,9/0,55	0,74/0,42





Type	SP12	Type	SP18		
<b>Components</b>	<b>Materials</b>	<b>Components</b>	<b>Materials</b>		
1	Rod	Steel C 40	1	Rod	Steel C 40
2	Frame	Aluminium	2	Frame	Aluminium
3	V-Ring Ø 12	NBR	3	V-Ring Ø 12	NBR
4	Rotor		4	Rotor	
5	Stator		5	Stator	
8	Shaft	Steel C 40**	8	Shaft	Steel C 40**
9	Pump body	Cast iron G 20	9	Pump body	Cast iron G 20
12	Impeller	PBT*	12	Impeller	PBT*
13	Rubber washer	PBT	13	Rubber washer	PBT
14	Terminal box	Nylon	14	Terminal box	Nylon
15	Terminal block	mm. 40x25 6P	15	Terminal block	mm. 40x25 6P
16	Non-drive end shield	Aluminium	16	Non-drive end shield	Aluminium
17	Fan	Nylon	17	Fan	Nylon
18	Fan cover	Nylon***	18	Fan cover	Nylon***
19	Drive end shield	6003 2 RS	19	Drive end shield	6003 2 RS
21	Spring ring	ø 32	21	Spring ring	ø 32
22	Bearing	6201 ZZ	22	Bearing	6201 ZZ
25	Sealing ring	NBR 17X25X4	25	Sealing ring	NBR 17X25X4
28	Bronze bearing	19x17x15	28	Bronze bearing	19x17x15
29	Sealing ring	NBR 17X25X4	29	Sealing ring	NBR 17X25X4
31	House impeller	PBT	31	House impeller	PBT
41	OR 82,27X1,78	NBR	41	OR 82,27X1,78	NBR

**Details 28 - 29 only on length mm. 350**

	<b>On request</b>
*	Cast iron G 20
**	Aisi 420
***	Sheet