

Submersible motor-driven pumps

Type SPV 12-18



Uses

They are suitable for transferring liquids containing impurities up to 3 mm in size. Their hydraulic components: impeller, feed screw and pump body in PBT allow them to be used with water, emulsions and oily substances in general, with a viscosity not exceeding 21 cSt (3° Engle).

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

They are commonly used on:

- **machine tools** (milling and turning machines-drills)
- **glass processing machinery** (TRI version)
- **printing machines**

They are normally installed on a tank with a capacity which is proportional to their flow rate, about 3-4 cm from the bottom.

It is important to make sure that the maximum liquid level in the tank is always 3-4 cm lower than the support flange (see figure).

Should the liquid be particularly dirty, it is advisable to build a compartment tank in order to allow the sludge to deposit before it is sucked by the pump.

For different uses, please consult our Technical Office.

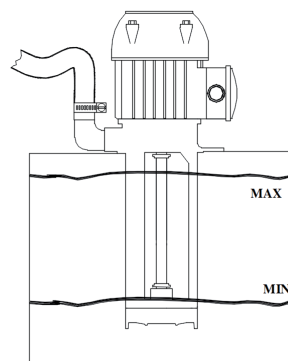
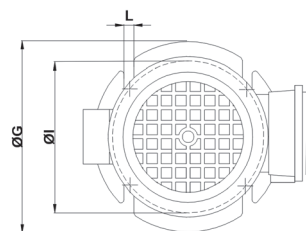
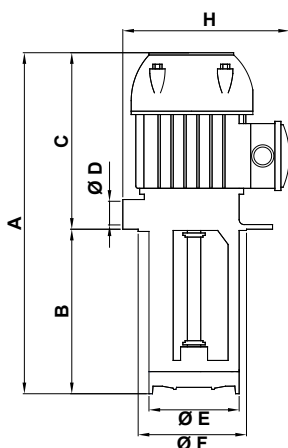
Size and weights table

Type of pump	A mm	B mm	C mm	ØD	ØE mm	ØF mm	ØG mm	H mm	ØI mm	L mm	Mass kg
SPV 12	255	90 T	165	3/4"	98	100	130	151	115	7 (n.4)	2.8
	285	120 T									2.9
	335	170 T									2.9
	385	220 T									3.0
	435	270 T									3.1
	515	350									3.3
SPV 18	255	90 T	165	3/4"	98	100	130	151	115	7 (n.4)	2.8
	285	120 T									2.9
	335	170 T									3.0
	385	220 T									3.1
	435	270 T									3.2
	515	350									3.3

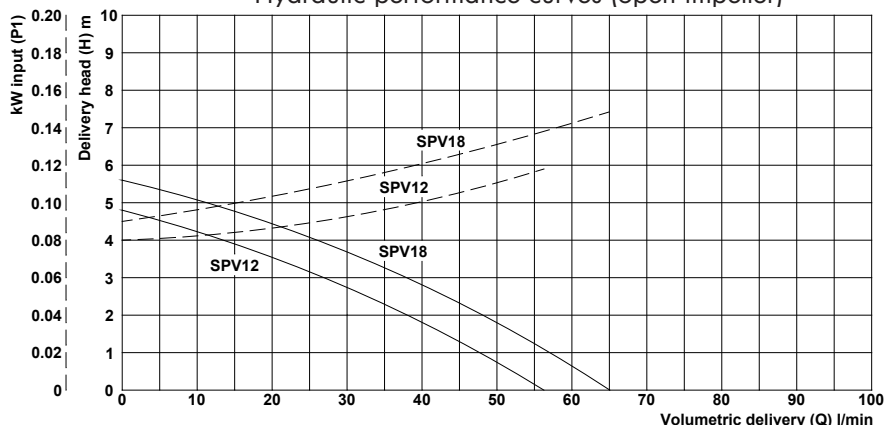
On demand: T= TRI mode

Rating plate data

Type of pump	kW		V 230/400 - Hz 50			Q - maxQ litres/min	maxH - H metres
	Input (P1)	Nom. (P2)	In Amp.	n min ⁻¹	cos φ		
SPV 12	0.15	0.07	0.52/0.30	2770	0.71	6 - 56	4.5 - 0
SPV 18	0.17	0.09	0.55/0.32	2730	0.72	2 - 65	5.5 - 0

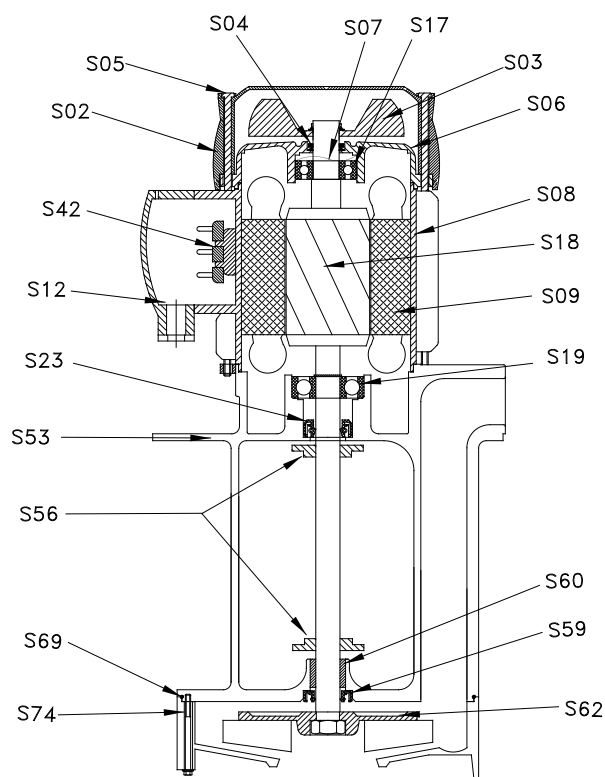


Hydraulic performance curves (open impeller)



Hydraulic performance table (open impeller)

Type of pump	Volumetric delivery (Q) l/min ↓											
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5
SPV 12	56	52	48	43	38	33	27	21	13	6		
SPV 18	65	61	57	53	48	43	38	32	26	19	12	2



Spare parts nomenclature

Component	
S02.	Fan cover
S03.	Fan
S04.	V-ring
S05.	Stay rod
S06.	Upper shield
S07.	Spring ring
S08.	Housing
S09.	Wound stator
S12.	Terminal box
S17.	Upper bearing
S18.	Axis + rotor
S19.	Lower bearing
S23.	Motor seal ring
S42.	Terminal board
S53.	Pump body
S56.	TRI washer
S59.	Seal
S60.	Bushing
S62.	Impeller
S69.	O-ring
S74.	Impeller-cover

SPV 12	
Materials	
	Nylon
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel*
	-
	NBR
	-
	PBT
	PBT
	NBR**
	Bronze**
	PBT
	NBR
	PBT

SPV 18	
Materials	
	Nylon
	Nylon
	NBR
	Steel
	Aluminium
	Steel
	Aluminium
	-
	Nylon
	-
	Steel*
	-
	NBR
	-
	PBT
	PBT
	NBR**
	Bronze**
	PBT
	NBR
	PBT

*On demand. Ax. AISI 316
**Available only on suction pipe 220-270-350 **Available only on suction pipe 220-270-350