

# Submersible motor-driven pumps

## Type SPV 50-75



### 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 Nylon 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:

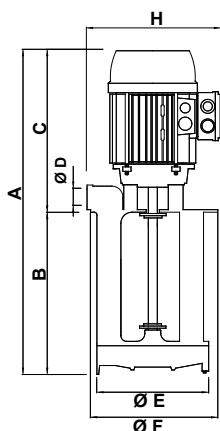
- **machine tools** (milling and turning machines)
- **glass processing machinery** (TRI version on suction pipes 200 and 270)
- **printing machines**
- **air-conditioning systems**
- **spray booths**

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.**



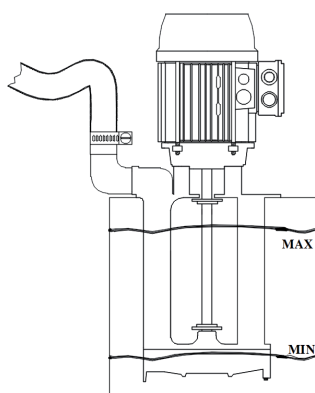
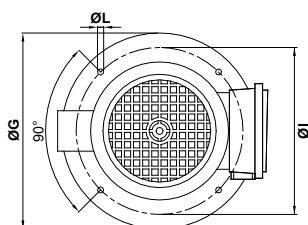
### Size and weights table

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 50	460	200 T	260	1 ¼"	138	140	180	215	160	7 (n.4)	7.7
	530	270 T									8.3
	610	350									8.9
SPV 75	460	200 T	260	1 ¼"	138	140	180	215	160	7 (n.4)	8.7
	530	270 T									9.2
	610	350									9.9

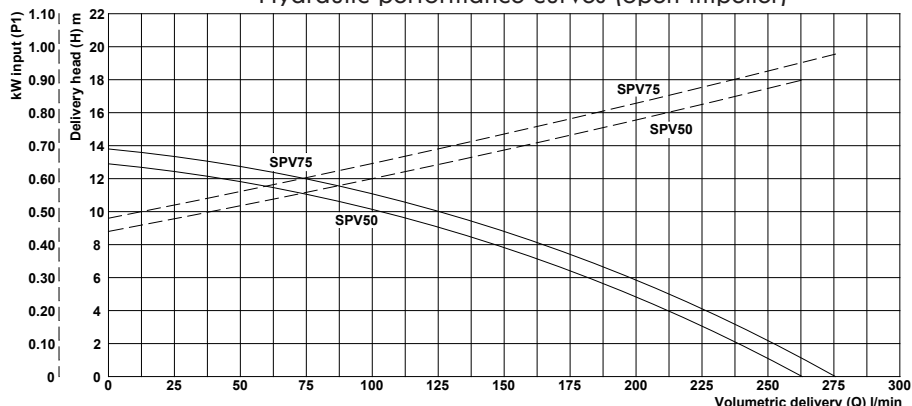
**On demand:** T = TRI mode

### 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 <sup>-1</sup>	cos φ		
SPV 50	1.00	0.75	3.24/1.87	2770	0.77	43 - 263	12 - 0
SPV 75	1.20	0.90	3.83/2.21	2760	0.78	75 - 275	12 - 0

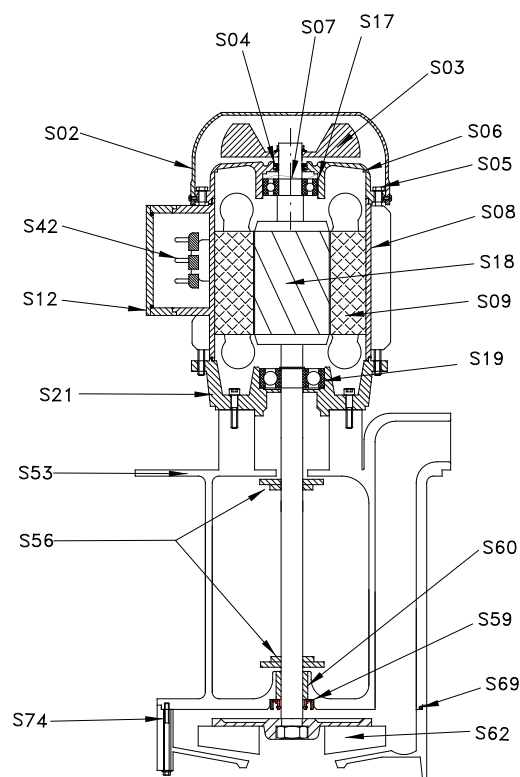


### Hydraulic performance curves (open impeller)



### Hydraulic performance table (open impeller)

Delivery head (H) m	0	1	2	3	4	5	6	7	8	9	10	12	14	16	18
Type of pump	Volumetric delivery (Q) l/min ↓														
SPV 50	263	250	238	226	213	198	182	164	147	127	103	43			
SPV 75	275	264	252	240	226	213	198	182	165	146	125	75			



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
S21.	Flange
S23.	Motor seal ring
S42.	Terminal board
S53.	Pump body
S56.	TRI washer
S60.	Bushing
S62.	Impeller
S69.	O-ring
S74.	Impeller-cover

SPV 50
Materials
Nylon*
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
(AX.AISI 416)**
-
Aluminium
NBR
-
Nylon
PBT
Engineering plastic
Nylon
NBR
Nylon

SPV 75
Materials
Nylon*
Nylon
NBR
Steel
Aluminium
Steel
Aluminium
-
Nylon
-
(AX.AISI 416)**
-
Aluminium
NBR
-
Nylon
PBT
Engineering plastic
Nylon
NBR
Nylon

\*On demand Sheet metal  
\*\*On demand covered in PBT on suction pipe 200-270-350

\*On demand Sheet metal  
\*\*On demand covered in PBT on suction pipe 200-270-350